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The Gazette of India

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इस भाग में भिन्न पृष्ठ संख्या दी जाती है, जिससे कि यह अलग संकलन के रूप में रखा जा सके ।
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

भाग III—खण्ड 2
[PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस
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Calcutta, the 19th January 1985

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Sl. No.	Holiday	Date	Day of the week
1.	Republic Day/ Saraswati Puja	January 26	Saturday
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3.	Mahavir Jayanti	April 03	Wednesday
4.	Good Friday	April 05	Friday
5.	Buddha Purnima	May 04	Saturday
6.	Idu'l Fitr**	June 20	Thursday
7.	Independence Day	August 15	Thursday
8.	Idu'z Zuha (Bakrid)	August 27	Tuesday
9.	Janmashtami	September 07	Saturday
10.	Maharam **	September 26	Thursday
11.	Mahatma Gandhi's Birthday	October 02	Wednesday
12.	Addl Day for Dussehra	October 21	Monday
13.	Dussehra	October 22	Tuesday
14.	Diwali	November 12	Tuesday
15.	Guru Nanak's Birthday	November 27	Wednesday
16.	Christmas Day	December 25	Wednesday

** Subject to change, depending on appearance of the Moon.

CORRIGENDUM

In the Gazette of India Part-III Section 2 dated the 15th September, 1984, Page 787, column 2, under the heading "Patents Sealed" in 6th line for number 145075 read 145095.

APPLICATION FOR PATENT FILED AT THE HEAD OFFICE 214, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-17

The dates shown in crescent brackets are the dates claimed under Section 135, of the Act.

13th December, 1984

865/Cal/'84. Aluminium Pechiney. Electrolysis Tank with a current strength of greater than 250 000 amperes for the production of Aluminium by means of the Hall Heroult process.

14th December, 1984

866/Cal/84. Development Consultants Private Limited. Improvements in or relating to flushing apparatus.

867/Cal/84. Development Consultants Private Limited. Improvements in or relating to gates for dust collectors.

868/Cal/84 Zaklady Produkcji Urzadzen Mechanicznych im. Janka Krasickiego "Elwo" and Biuro Studiow I Projektow Energetycznych "Energoprojekt". A method of producing a suspension of fly ash in water and an installation therefor.

869/Cal/84 (1) Hasso Von Blucher, (2) Dr. Ernest De Ruiter. High-Water Protection.

17th December, 1984

870/Cal/'84 Bridon plc Flexible Tension Members. (20th December 1983, U.K.).

871/Cal/84 E. I. Du Pont De Nemours and Company. Pd/Re Hydrogenation catalyst and process for making tetrahydrofuran and 1, 4-butanediol.

872/Cal/'84 Bhagwan Jeiramdas Kirpalani. Power Generating System.

873/Cal/84 Bhagwan Jeiramdas Kirpalani. A swing for driving a rotary device.

874/Cal/'84 Bhagwan Jeiramdas Kirpalani. Method for extracting combustible gas from subterranean oil-bearing formations.

875/Cal/84 Bhagwan Jeiramdas Kirpalani. A device for extracting heat from within the earth.

19th December, 1984

876/Cal/84 General Foods Corporation. 3-Hydroxy-4-Methoxyphenyl Benzoates.

877/Cal/84 General Foods Corporation 3-Hydroxy-4-Alkyloxy-phenyl Heterocyclic Aromatic Carboxylates.

878/Cal/84. The Scopas Technology Company, Inc. Hydrophobic Crystalline, Microporous Silaceous materials of Regular geometry.

879/Cal/84. Ambac Industries, Inc. Method and apparatus for torque control of an internal combustion engine as a function of exhaust smoke level.

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH MUNICIPAL MARKET BUILDING, IIIRD FLOOR, KAROL BAGH, NEW DELHI-5

26th November, 1984

894/Del/'84 Krishna Kumar Chetal, "Air cooler".

895/Del/84 Ajinomoto Co. INC. "Process for production of protein food material".

896/Del/'84 Smith Valve Corporation, "Top entry metal seated ball valve".

897/Del/84 Bayer Aktiengesellschaft. "1 4 Bis-(Stvryl)-benzenes and their use as optical brighteners".

27th November, 1984

898/Del/84 Uniroyal, Inc., "Positive drive power transmission belts and method of molding such transmission belts". [Divisional date May 6, 1981].

899/Del/'84 Energy Conversion Devices, Inc., "Semiconducting multilayered structures and systems and methods for synthesizing the structures and devices incorporating the structures".

900/Del/84. Emhart Industries, Inc., "Mould arrangement for a cyclicly operating oldsware forming machine" (Convention date December 20, 1983) (U.K.).

901/Del/84. Westinghouse Brake and Signal Company Limited, "Vehicle control system". (Convention date December 9, 1983) (U.K.).

902/Del/'84 The Coca Cola Company, "Process of manufacturing peanut milk".

903/Del/'84 Uop Inc., "Improved HF regeneration inaromatic hydrocarbon alkylation process".

904/Del/'84. Uop Inc., "Antimicrobial fabrics".

905/Del/'84 Uop Inc., "Catalytic oxidation of mercaptan in petroleum distillate".

28th November, 1984

906/Del/84 Karl Friedrich Keilhau, "A racket for ball games".

907/Del/84 IMI Titanium Limited "Alloy". (Convention Date December 10, 1983) (U.K.)

29th November, 1984

908/Del/84. Alsthom-Atlantique, "An automatic sheet metal cutting machine". [Divisional date May 11, 1981].

909/Del/84. Vsesojuzny Nauchno-Issledovatelsky Institut Me iznoi Promychl.nnosti "Vnimetiz", Method of making ropes and rope twis.ing machine for carrying out the method".

30th November, 1984

910/Del/84. Bal Krishan Gupta, "A protection seal for L P Gas, Pin Type, cylinder valve".

911/Del/84. Exxon Research and Engineering Co., "Dewaxing aid recovery by use of semipermeable membranes".

912/Del/84. Exxon Research and Engineering Co., "A method for dewaxing aid recovery by means of ult afiltration using a selective membiane and the spiral wound element for such recovery".

3rd December, 1984

913/Del/84. Isher Singh Gill, "Improvement in or relating to quan ity measurement gauges for LPG gas cylinders and the like".

914/Del/84. Vidhyadhar Joshi, "Rumenotherapeutic set".

4th December, 1984

915/Del/84. ESAC S.A., "A hydro-electric generator of the tubine bulb type".

916/Del/84. Fuller Company, "Pneumatic conveying device".

5th December, 1984

917/Del/84. UOP Inc., "Process for sweetening petroleum fractions".

918/Del/84. Standard Telephones and Cables Public Limited Company, "Coated glass". (Convention date January 12, 1984) (U.K.).

919/Del/84. Salvador Pujol Barcons, "Walkways for use in the consturction industry".

6th December, 1984

920/Del/84. Kidar Nath Babbar, "An air conditioning system".

921/Del/84. Kap Company General Limited, "A hydraulic circutt".

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002

3rd December, 1984

942/Mas/84. U. V. Nayak. A device to build wall.

943/Mas/84. Snamprogetti Sp.A. Improved pipe for building thermally insulated conduits, and process for said building.

944/Mas/84. Yoshihi o Yonahara. Solar Water Warmer.

945/Mas/84. Schlumberger Technology Corporation. Electronics packaging system.

946/Mas/84. The Dow Chemical Company. Secondary electrical energy storage device and electrode therefor.

4th December, 1984

947/Mas/84. A. K. T. Varghese. A mechanical torque converter.

948/Mas/84. M. Muthukrishnan. Automatic fuse changer.

949/Mas/84. Cabot Co poration. Production of carbon black.

950/Mas/84. Cabot Corporation. Production of carbon black.

951/Mas/84. Pilkington Brothers P.L.C. Improvements in or relating to coating apparatus. (December 5, 1983; United Kingdom).

952/Mas/84. BBC Brown, Boveri & Company Limited. High-power transmitter with automatic control and monitoring.

953/Mas/84. Societe Francaise. Hoechst. Hard seed treatment process par icularly adapted to isolation of pure polysaccharides.

5th December, 1984

954/Mas/84. U. V. Nayak. A device to build wall.

955/Mas/84. UNIE Van Kunstmestfabrieken B. V. Process for concentrating an already concentrated urea solution to form a practically anhydrous melt.

956/Mas/84. Stamicarbon B. V. Process for preparing polycaryonitrile articles having high tensile strength and modulus.

957/Mas/84. Instıute PO Metaloznanie I Technologia NA Metalle. Apparatus for soldering the winding to the commutator of an electric machine.

6th December, 1984

958/Mas/84. Bundy Tubing of India Limited. Slip joint connection.

959/Mas/84. Bundy Tubing of India Limited. Spring washer compression fitting assembly.

960/Mas/84. Amsted Industries Incorporated. Railway car connections with guided slack adjusting wedges.

961/Mas/84. Ame ican Standard Inc. Improved brake cylinder/air reservoir device.

962/Mas/84. Merlin Gerin. Device for connecting a bonding strip to contact rod, and its assembly procedure.

7th December, 1984

963/Mas/84. A. H. Robins Company. Process for preparation of pyrido [1, 4] Benzodiazepines. (Divisional to Application No. 1443/Cal/82).

964/Mas/84. A. H. Robins Company. Process for preparation of novel [2-[(Aminopyridinyl) Amino] Phenyl] arylmethanone and analogs thereof. (Divisional to Application No. 1443/Cal/82).

965/Mas/84. Henkel Kommanditegesellschaft auf Aktien. The use of salicylic acid esters as perfumes, perfum co positions containing them and new salicylic esters.

966/Mas/84. Henkel Kommanditesellschaft Auf Aktien, The use of salicylic acid esters as pertumes and perfume compositions containing them.

967/Mas/84. Honda Giken Kogyo Kabushiki Kaisha. Work Spindle device.

968/Mas/84. Zellweger Uster Ltd. Method and apparatus for he automatic monitoring of textile fabrics, especially woven fabrics.

969/Mas/84. Etudes Et Fabrication Dowell Schlumberger. A method of treatm nt of gas or oil wells and drilling installations with scleroglucane.

ALTERATION OF DATE

155296.
(778/Del/80). Post dated to 22nd May, 1984.

155312.
(310/Del/82). Ante dated to 25th January, 1979.

155313.
(311/Del/82). Ante dated to 25th January, 1979.

COMPLETE SPECIFICATIONS ACCEPTED

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CLASS : 32-B, & 40-B. 155291

Int. Cl. : B01j 11/00.
C07c 1/00, 1/14, 3/10.

A METHOD FOR CARRYING OUT AN EXOTHERMIC NICKEL CATALYZED, METHANATION REACTION".

Applicant : HALDOR TOPSOE A/S, OF NYMOLLEVEJ 55, DK-2800 LYNGBY, DENMARK.

Inventors : JENS RICHARD ROSTRUP-NIELSEN, KARSTEN PEDERSEN, ERNST JORN & ALLAN SKOV.

Application No. 529/Cal/81 filed May 19, 1981.

Appropriate Office for opposition proceedings (Rule 4 Patents Rules 1972) Patent Office, Calcutta.

8 Claim

A method for carrying out an exothermic, nickel catalyzed, methanation reaction in a cooled reactor containing a bed of nickel-containing porous catalyst particles as herein described, wherein each of the individual particles of the catalyst has an outermost zone of reduced catalytic activity with respect to the methanation said outermost zone occupies from 1—10% by volumes of said particles.

Compl. specn. 22 pages Drg Nil

CLASS : 40-F. 155292.

Int. Cl. : G05d 23/00.

METHOD OF AND APPARATUS FOR CONTROLLING A HEAT TRANSFER PLANT.

Applicant & Inventor : THEO VAN DER MEULEN, OF PETERSBERGSTRESSE 4, 5204 LOHMAR 21, FEDERAL REPUBLIC OF GERMANY.

Application No. 7/Cal/77 filed January 4, 1977.

Appropriate Office for opposition proceedings (Rule 4. Patents Rules, 1972)Patent Office, Calcutta.

12 Claims

Apparatus for the control of a heating circuit employing a substantially constantly circulating heat carrying medium for the heating of a space, particularly but not exclusively a water central heating system, comprising in combination first thermostat for determining the feed temperature of the circulating medium, a second thermostat for determining the return temperature of the medium, control means responsive to output from said first and second thermostats for adjusting feed temperature according to a predetermined temperature differential, and at least one further basic load thermostat responsive to at least the feed temperature of the medium, said further thermostat being coupled to the control means for establishing the minimum temperature of the medium.

Compl. specn. 11 pages. Drgs. 2 sheets.

CLASS : $83\text{-}A_3$. 155293.

Int. Cl. : $A23_D$ 1/00.

A PROCESS FOR THE PRODUCTION OF AN EDIBLE PRODUCT".

Applicant : MARS G.B. LIMITED, OF 143-149 FENCHURCH STREET, LONDON E C 3 M 6BN, ENGLAND.

Inventors ALAN JOHN VERNON, PETER ARTHUR CHENEY, & JOHN STARES.

Application No. 1116/Cal/81 filed October 12, 1981.

Convention date 9th October 1980 (32684/80) U.K.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

A process for the production of an edible product having a pH between 5 and 8 and having a gelled aqueous phase provided by a mixture of at least one glucomannan and at least one carrangeenan, which comprises subjecting a gelling system of at least one glucomannan and at least one carrageenan to a temperature of at least 50 C for a period of up to 16 hours such as to form a thermoirre-versible gel in the aqueous phase.

Compl. specn. 27 pages. Drg. Nil.

CLASS : 181. 155294.

Int. Cl. : F16j 15/00.

"SEAL FOR RELATIVELY RECIPROCABLE PARTS".

Applicant : O & K ORENSTEIN & KOPPEL AKTIENGESELLSCHAFT OF 1000 BERLIN 20, BRUNSBUTTELER DAMM 144-208, WEST GERMANY AND LORENZ GMBH OF 6240 KONIGSTEIN, AM BURGENBLICK 9, WEST GERMANY.

Inventors : CLAUS BERTRAM AND GEORG MICHAEL LORENZ.

Application for Patent No. 693/Del/79 filed on 28th September, 1979.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

11 Claims

A sealing system for relatively reciprocable parts, comprising a seal member which seals against both said parts, and a further sealing element which is spaced apart from the said seal member and has a lip directed away from the said seal member and touching one of the said parts, the further sealing element having at least one passage constituting a pressure-equalisation path between the two sides of the element.

Compl. specn. 11 pages. Drgs. 3 sheets.

CLASS : 126 D. 155295.

Int. Cl. : G01b 7/02.

"APPARATUS FOR CONTROLLING THE THICKNESS OF A MOVING WEB OF MATERIAL".

Applicant : FRIESEKE & HOEPFNER GmbH., A GERMAN COMPANY, OF TENNENLOHER STRASSE 41, POSTFACH 1660, 8520 ERLANGEN-BRUCK, FEDERAL REPUBLIC OF GERMANY.

Inventor : HEINRICH STROBEL

Application for Patent No. 703/Del/80 filed on 29th September, 1980.

Convention dated 31st March, 1980/8010751/(U.K.).

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

4 Claims

Apparatus for controlling the thickness of a moving web of material emanating from a station producing said web, which comprises radiometric measuring means located at or near the outlet of said production station and adjacent the path of said web whereby said measuring means determines the weight per unit area and hence the thickness of said web, an opto-electronic device located downstream of said radiometric measuring means with respect to the path of said web for measuring the thickness of web by means of laser radiation, comparator means connected to said radiometric measuring means and to said opto-electronic device adapted to compare the measured values obtained by said means and said device and to obtain a comparative corrected value representative of the desired thickness value for said web, said comparator means being adapted to feed said corrected value to control means located within said production station and to actuate said control means for controlling the thickness of the web emerging from said station.

Compl. specn. 11 pages. Drg. 1 sheet.

CLASS : 206 E. 155296.

Int. Cl. : G06f 13/06.

"A MICROPROCESSOR SUBSYSTEM".

Applicant : CHIEF CONTROLLER RESEARCH & DEVELOPMENT, MINISTRY OF DEFENCE, GOVERNMENT OF INDIA, NEW DELHI (INDIA), AND INDIAN NATIONAL.

Inventor : GOVINDARAGHAVAN SRIDHARAN.

Application for Patent No. 778/Del/80 filed on 28th October, 1980 Post dated to 22nd May, 1984.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

2 Claims

A microprocessor subsystem consisting a micro computer system having a 8-bit microprocessor is connected to a data bus, an address bus and to a control bus, an address decoder connected to said address bus, a memory in ROM form being connected to said data bus and control bus and a memory in RAM form being connected to said data bus, the address bus and the control bus, a key board entry connected to the said data bus, the address bus and the control bus and a six digit display connected to said key board entry, said address decoder being coupled to said RAM and ROM forms and the key board entry, said system being operable in interrupt driven mode is capable of computing time delays with a software program being characterized in that there is provided a TTL interface circuit connected to an output port of said microcomputer and to an interrupt or RST line of said microprocessor comprising a first and second inverter connected respectively to two flip flops, said flip flops being connected through a buffer to the output port of said microcomputer and through a third to fifth open collecto inverters to the interrupt or RST line of the said microprocessor wherein said third open collector inverter is provided with said first flip flop, the fourth open collector inverter with the said second flip flop and the output of the said third and fourth open collector inverter being connected to said fifth open collector inverter which said fifth open collector inverter is connected to the said interrupt or RST line of the microprocessor.

Compl. specn. 10 pages. Drgs. 2 sheets.

CLASS : 147 L, J. 155297.

Int. Cl. : G11b 23/46.

"AUDIO SIGNAL PROCESSING SYSTEM".

Applicant : KINTEK, INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF MASSACHUSETTS, UNITED STATES OF AMERICA AND HAVING A PRINCIPAL PLACE OF BUSINESS AT 61 CHAPEL STREET, NEWTON, MASSACHUSETTS, UNITED STATES OF AMERICA.

Inventor : DAVID EASTMAN BLACKMER.

Application for Patent No. 789/Del/80 filed on 1st November, 1980.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

13 Claims

An audio signal processing system of the type for generating ambient effects, said system comprising :

at least two channels for respectively transmitting an audio signal to at least two speakers so that one of the speakers reproduces sound in response to the audio signal at a predetermined delay with respect to the other of said speakers;

means coupled to one of said channels and responsive to the signal level of said audio signal for producing a gain control signal as a function of the time derivative of the signal level of said audio signal; and

gain control means electrically coupled in one of said channels so as to receive the audio signal being transmitted to said one speaker for controlling the signal gain impressed on the audio signal being transmitted to said one speaker as a function of said gain control signal;

wherein said gain control means provides (A) gain reduction on (1) impulse noise transmitted in the channel for transmitting said audio signal to said one speaker and (2) audio signals of a first kind transmitted in said channel for transmitting said audio signal to said one speaker and adapted to be reproduced by said other speaker in a localized manner, and (B) signal expansion on audio signal of a second kind transmitted in said channel for transmitting said audio signal to said one speaker and adapted to be reproduced by said at least two speakers with a sense of spatial depth.

Compl. specn. 21 pages. Drg. 1 sheet.

CLASS : 70B, 98I. 155298.

Int. Cl. : F24j 3/02, B01k 3/06.

"AN IMPROVED PROCESS FOR THE PRODUCTION OF BLACKENED COATING ON METAL SUBSTRATES FOR USE IN SOLAR APPLICATIONS."

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT, (ACT XXI OF 1860).

Inventors : BALKUNJE ANANTHA SHENOI, SUBBIAH JOHN, NANDAGOPAL VARADAPPA SHANMUGAM, KUMANDUR NARAYANA SRINIVASAN AND MARIAPPAN SELVAM.

Application for Patent No. 924/Del/80 filed on 29th December, 1980.

Complete specification left on 26th February, 1982.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

4 Claims

An improved process for the production of blackened coating on metal substrates for use in solar energy application comprising treating the nickel coated substrates, obtained by the process of Indian Patent No. 150568, by immersion in an aqueous bath containing (a) an oxidising agent, such as herein described (b) an accelerator, such as herein described and (c) a known wetting agent, at room temperature.

Provisional Specification 5 pages.

Complete Specification 8 pages.

CLASS : 126 C. 155299.

Int. Cl. : G01r 17/00.

"DEVICE FOR MEASURING THE TRUE A.C. RESISTIVITY OF A LIQUID".

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, OF RAFI MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : PAWAN KAPUR, DIL SUKH JAIN AND MARRIPUDI VENKATA SUBBA RAO.

Application for Patent No. 925/Del/80 filed on 29th December, 1980.

Complete Specification left on 27th March, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

7 Claims

A device for measuring the true A.C. resistivity of a liquid without the capacitive effects thereof, which comprises means for the production of amplitude stabilised sine wave oscillations connected through its output to the inputs of a set of electrodes located within or in contact with the said liquid, the combination of said amplitude stabilised sine wave oscillaton producing means and said electrodes forming a pseudo bridge configuration to generating sets of impedance signals and resistive signals, means connected to said pseudo bridge configuration for amplifying and feeding said signals to a combination of summing means and synchronous phase detector means whereby the desired impedance signals are passed on to filter means connected to said combination, said filter means deriving the desired resistive signal representative of the true resistivity of said liquid which signal is then employed for display or record purposes in any conventional manner.

Provisional Specification 4 pages.

Complete Specification 10 pages. Drgs. 2 sheets.

CLASS : 32F$_3$(e) & 17A. 155300.

Int. Cl. C12c 11/08.

"A PROCESS FOR THE MANUFACTURE OF ALCOHOL".

Applicant : PUNJAB TRACTORS LTD., OF PHASE IV, SAHIBZADA AJIT SINGH NAGAR, DISTT. ROPAR-160 051, INDIA AN INDIAN COMPANY.

Inventors : DHARAM VIR VADEHRA, N-GUNUSANKARAN & NARESH CHANDER CHANDAN.

Application for Patent No. 10/Del/81 filed on 7th January, 1981.

Complete specification left on 11th March, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

4 Claims

A process for the conversion of glucose into alcohol which consists in introducing the glucose into a fermentation vessel, adding a nitrogen source the eto and then innoculating yeast so as to cause a fermentation, said fermentation being carried out at a temperature not exceeding 37 C, the alcohol obtained from the step of fermentation being then subjected to any known process of concentration characterized in that said nitrogen source is urea and that 0.05% to 0.1% by weight of urea is added to the fermentation broth with or without vitamin B.

Provisional specification 7 pages.

Complete specification 10 pages.

CLASS : 76I. 155301.

Int. Cl. : E05c 17/16.

"SAFETY LATCHES".

Applicant : GURU ENTERPRISES, A PARTNERSHIP FIRM, WHOSE PARTNERS ARE : SURINDER SINGH, VASDEV SINGH, JASHIR SINGH, KHUSHWANT SINGH, AND MRS. PREM KAUR, ALL INDIAN NATIONALS OF 49 HLMKUNT, NEW DELHI 110048, INDIA.

Inventor : JASBIR SINGH.

Application for Patent No. 23/DEL/81 filed on 14th January, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch New Delhi-110005.

6 Claims

A safety latch for a closure member comprising a releasable member to consist of a rigid locking finger with a head, a pivotal locking arm capable of being angularly displaced towards said locking finger, said arm having a longitudinal slot extending into a head for receiving said locking finger and allowing the locking finger to be locked in said slot.

Complete specification 8 pages. Drg. 1 sheet.

CLASS : 157D$_3$ & 158D. 155302.

Int. Cl. : E01b 27/17.

"RAILWAY TRACK TAMPING MACHINE".

Applicant : SIG SOCIETE INDUSTRIELLE SUISSE, A JOINT STOCK COMPANY OR ASSIZED UNDER THE LAWS OF THE STATE OF SCHAFFHAUSEN SWITZERLAND OF INDUSTRIEPLATZ, 8212 NEUHAUSEN-CHUTES DU RHIN, SWITZERLAND.

Inventor : SANDRO PASQUINI

Application for Patent No. 25/De /81 filed on 14th January, 1981.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch New Delhi-110005.

5 Claims

A railway track tamping machine comprising a rolling chassis having a front portion and a rear portion, said rear portion being free of obstructions and the front and rear of the chassis being considered in the direction of advance of the machine when working two rolling supports for the chassis, track displacement tools and track tamping tools arranged on the chassis between the rolling supports, the track tamping tools being located behind the track displacement tools in the said direction of advance of the machine, a first cab to provide a view of the track in front of said rolling chassis, the first cab being located at the front portion of the chassis in front of said track displacement tools and comprising at least one first station for driving the machine and a station for entering and adjusting prescribed values for the displacement of the track a second cab also arranged at the front portion of the chassis in front of said track displacement tools and comprising at least one second station

for driving the machine and a station for controlling the tamping and track displacement tools, and a power plant located between said cabs, whereby view from the second cab is assured of the track displacement tools of the tamping tools and of the track to the rear or the chassis.

Compl. specn. 11 pages. Drg. 1 sheet.

CLASS : 206G 155303

Int. Cl. : H04b 7/02.

"A DIVERSITY RADIO TRANSMISSION-SYSTEM."

Applicant : THOMSON-CSF, OF 173 BL HAUSSMANN, 75008 PARIS, FRANCE, A FRENCH COMPANY.

Inventor : CLAUDE COLLIN.

Application for Patent No. 28/Del/81 filed on 20th January, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

7 Claims

A system for radio transmission of digital information signal between terminal stations, by tropospheric or ionospheric scatter propagation via a plurality of frequency diversity carrier signals, each station comprising at least one transmitter and one superheterodyne receiver, said transmitter comprising :

a carrier signals generator comprising an oscillator having a frequency modulation input, a generator having an output coupled to said modulating input supplying a signal at frequency F for frequency modulating said oscillator with a predetermined index, producing in the frequency spectrum N spectral lines, and forming said carrier signals,

a digital phase modulation means having an input receiving said information signal, coupled to said carrier signals generator, for simultaneously angularly modulating said carrier signals by said information signal, said information signal having a highest frequency lower than the frequency F,

an amplifier having an input receiving said modulated carrier signals and an output for simultaneous amplification of said carrier signals,

a band pass filter having an input coupled to the output of said amplifier and an output having a bandwidth slightly greater than (N-1) F,

and an antenna having an input coupled to the output of said filter, forming the output of said transmitter.

Complete specn. 13 pages. Drg. 1 sheet.

CLASS : 85Q, 108B & 141D 155304

Int Cl. : F27b 7/00.

"METHOD AND APPARATUS FOR THE DIRECT REDUCTION OF MATERIALS CONTAINING IRON OXIDES."

Applicant : DAVY McKEE (STOCKTON) LIMITED, STOCKTON-ON-TEES, ENGLAND TS18 3RE, A UNITED KINGDOM INCORPORATED COMPANY.

Inventors : VITIE PAUL KERAN & ALAN CHRISTOPHER BAKER.

Application for Patent No. 30/Del/81 filed on 20th January, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

11 Claims

A method for the direct reduction of materials containing iron oxides in a rotary kiln using a solid carbonaceous reducing agent supplied to the kiln and oxygen containing gas injected into the kiln along the length thereof, the kiln having a preheat zone toward the charge feed end and a reduction zone towards the discharge end, the method including the steps of injecting said gas into at least the first part of the preheat zone in direction axially of the kiln and towards the feed end, and of injecting the remaind r of said gas into the kiln in the direction of the discharge end.

Compl. specn. 20 pages. Drg. 2 sheets.

CLASS : 129 E, G 155305

Int. Cl. : C23g 1/00.

"A PROCESS FOR CONVERTING GRADED METALLIC SCRAP TO SLUGS."

Applicant : CHIEF CONTROLLER RESEARCH & DEVELOPMENT, MINISTRY OF DEFENCE, GOVERNMENT OF INDIA, NEW DELHI, INDIA, AN INDIAN NATIONAL.

Inventor : GADDE RADHA KRISHNA MURTHY.

Application for Patent No. 37/Del/81 filed on 22nd January, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

2 Claims

A process for converting graded metallic scrap to slugs which consists in cleaning the graded metallic scrap by any known method, prepacking the multifarious graded clean scrap in a die upto 75% said die made of steel and having a temperature of between 100 to 300°C of theoretical density followed by liquid infilteration of the same (or different alloy in the case of composites) and insituforge-welding under applied pressure of upto 40 kg/mm².

Compl. specn. 6 pages. Drg. 1 sheet.

CLASS : 63 A_1, 2° 155306.

Int. Cl. : H02n 4/02.

"HYDROGENERATORS."

Applicant : BHARAT HEAVY ELECTRICALS LTD., 18-20, KASTURBA GANDHI MARG, NEW DELHI-110 001, INDIA, AN INDIAN COMPANY.

Inventor : MOHAN VISHWESHWAR PANDIT.

Application for Patent No. 68/Del/81 filed on 7th February, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

4 Claims

A hydrogenerator having a stator comprising a core built up of a plurality of stacks of laminations, wherein key bars fitted in dove tailed slots in the lamination are slid fit at their outer ends, in slots formed in support blocks which are welded to the frame of the stator, the outer face of each key bar bears against disc springs housed in the said slots in the support blocks and a plurality of studs are fitted in threaded holes in each key bar the outer ends of the studs being secured to the support blocks by nuts.

Compl. specn. 7 pages. Drg. 2 sheets.

CLASS : $64B_8$ 155307

Int. Cl. : H01r 7/00.

"SPLIT TYPE LOWER SOCKET IN CEILING FAN MOTORS."

Applicant : THE JAY ENGINEERING WORKS LTD., AN INDIAN COMPANY HAVING ITS REGISTERED OFFICE AT 23 KASTURBA GANDHI MARG, NEW DELHI-110 001, INDIA.

Inventors : TEJ BHAN GUPTA, PRADEEP HANDOO & VINOD KUMAR CHHABRIA.

Application for Patent No. 96/Del/81 filed on 20th February, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

8 Claims

A split type lower socket for clamping or coupling together the down rod and the shaft of the motor of an alternating current ceiling fan comprising two halves each having a trough shaped middle portion and two hollow semi cylinder projections at each end, the two halves when clamped together defining a chamber of cylindrical or rectangular cross section and tubular projections at either end, said two halves being adapted to be secured to the down rod and the motor shaft passing through the said tubular projections by bolts passing through holes in the upper projection and the down rod and the lower projection and the motor shaft and fitted with buts.

Compl. specn. 8 pages Drg. 1 sheet

CLASS : 32C & 55E, 155308

Int. Cl. : C12d 7/00.

PROCESS FOR PREPARATION OF *E. COLI* HEAT STABLE ENTEROTOXIN DERIVATIVES.

Applicant : SMITH KLINE RIT, OF RUE DU TILLEUL 13, B-1320 GENVAL (RIXENSART), BELGIUM, A BELGIAN COMPANY.

Inventor : FRANS VAN WIJNENDAELE.

Application for Patent No. 103/Del/81 filed on 24 h February, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005

3 Claims

A process for preparing *E. Coli ST* enterotoxin derivative which comprises reacting *E. Coli* ST enterotoxin with a non-toxic bifunctional cross-linking agent for proteins of the kind such as herein described and recovering the so-obtained *E. Coli* ST enterotoxin derivative.

Compl. specn. 19 pages.

CLASS : 109 155309

Int. Cl. : A44c 25/00.

ARTICLE OF JEWELLERY.

Applicant : WALTER DIEHL, A GERMAN CITIZEN OF FUGGENSTREET 12, 8000 MUNICH 19, WEST GERMANY.

Inventor : WALTER DIEHL.

Application for Patent No. 156/Del/81 filed on 19th March, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005

13 Claims

An article of jewellery especially simulating an insect such as a butterfly, comprising :

(a) a body member,

(b) a pair of first rigid wires resembling insect feelers fixedly secured to the body member and extending outwardly from a forward portion thereof in a generally U configuration,

(c) a pair of second rigid elongated wires having outer ends attached to ends of a necklace,

(d) first joint means individually and freely articulating inner ends of the second wires to free ends of the first wires,

(e) a pair of equally configured elongate members,

(f) second joint means individually articulating an inner end of each elongate member to the body member, and

(g) coupling means individually and slidably connecting an outer end of each elongate member to the second wires at points laterally remote from the body member, whereby upon movement of a wearer the elongate members hinge at their inner ends proximate the body member and slide on the second wires at their outer ends, thereby simulating body appendage movements of an insect.

Compl. speen. 16 pages. Drg. 4 sheets.

CLASS : $32F_2(b)$ 155310

Int. Cl. : C07d 39/00.

PREPARATION OF NEW INDOLO (2, 3-a) QUINOLIZIDINES.

Applicant : SOCIETE DE CONSEILS DE RECHERCHES ET D' APPLICATIONS SCIENTIFIQUES (S.C.R.A.S.) FORMERLY KNOWN AS SOCIETE CIVILE DE RECHERCHES ET D' APPLICATIONS SCIENTIFIQUES (S.C.R.A.S.), A FRENCH COMPANY OF 264, RUE DU FAUBOURG, ST-HONORE, 75008 PARIS, FRANCE

Inventor : ALAIN BEGUIN.

Application for Patent No. 57/Del/82 filed on 25th January, 1982.

Ante dated to 24th November, 1978.

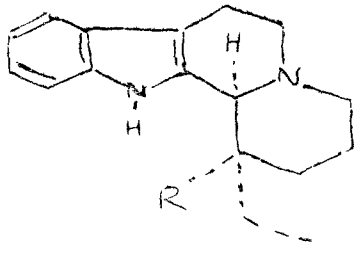
Convention date 25th November, 1977/49201/77/(U.K.)

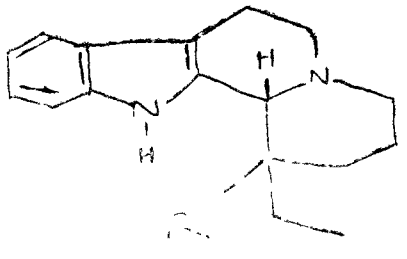
Divisional to Patent application No. 851/Del/78 filed on 24th November, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

2 Claims

Process for the preparation of new indolo (2, 3-a) quinolizidines isomers of the formulae (I) and (II)





wherein R stands for -COOH-, a primary or secondary methylenamino group, a methylenamido group, or wherein R, together with the ring nitrogen of the indolo ring, represents one of the groupings N-CO NH-CH_2 or N-CO-, comprising condensing together 2-aminoethyl-3- indole and 1-chloro-4-

(A)-4- chlorocarbonyl-hexane, wherein A stands for $-COOC_2H_5$ or -CN, to form the corresponding amide; subjecting the amide to strongly basic conditions to eliminate HCl and effect ring formation at the nitrogen atom on the 3-indole substituent; effecting quinolizidine ring formation of the product by treating it with a conventional dehydrating agent followed by a perchlorate salt; hydrogenating the resulting quinolizidinium perchlorate to produce a mixture of the corresponding indolo (2, 3-a) quinolizidine isomers and separating the isomers in any one of the conventional methods and if desired, treating the derivatives of formulae I and II so prepared wherein R is $COOC_2H_5$ or CN by methods known per se to produce derivatives of such formulae wherein R stands for -COOH-, a primary or secondary methylenamino group or a methylenamido group, or wherein R, together with the ring nitrogen of the indole ring represents one of the groupings N-CO-NH-CH_2 or N-CO.

Compl. specn. 29 pages. Drg. 7 sheets.

CLASS : $32F_3(_a)$ 155311

Int. Cl. : C07d 27/00.

PROCESS FOR THE PREPARATION OF DIMETHYL-4-ETHYL-4-FORMYL PIMELATE.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : SATYESH CHANDRA PAKRASHI, VENKATACHALAM SESHA GIRI & ESAHAK ALI.

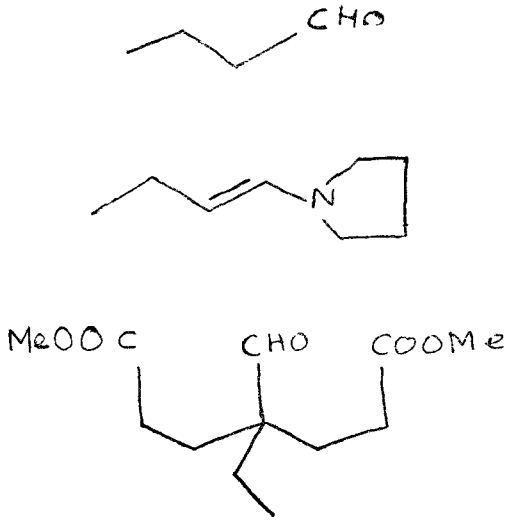
Application for Patent No. 275/Del/82 filed on 5th April, 1982.

Divisional to Patent application No. 361/Del/80 filed on 16th May, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

3 Claims

Process for the preparation of dimethyl-4-ethyl-4-formyl pimelate of formula III comprising reacting butyraldehyde of formula I with pyrrolidine to form pyrrolidine enamine of butyraldhyde of formula II



and alkylating by known methods the compound of formula II formed to obtain the desired compound of formula III.

Compl. specn. 5 pages. Drg. 1 sheet.

2—417 GI/84

CLASS : 32C 155312

Int. Cl. : C 07 g 7/00.

PROCESS FOR THE PREPARATION OF A NEW RNA-DEGRADING PROTEIN, RNA-ase SPL, FROM SEMINAL-PLASMA".

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860) AND MAX-PLANCK-INSTITUT FUR BIOPHYSIKALISCHE CHEMIE, KARL-FRIEDRICH-BONHOEFFER INSTITUT, AM FASSBERG, D-3400 GOETTINGEN-NIKOLAUSBERG, WEST GERMANY, AN ORGANISATION FORMED AND EXISTING UNDER THE LAWS OF WEST GERMANY.

Inventors : KARL HEINZ SCHEIT, ERGAM REDDY SHYAM PRASAD REDDY, TANGIRALA RAMKRISHNA MURTI, MADHUSUDAN WAMAN PANDIT AND PUSHPA MITRA BHARGAVA.

Application for Patent No. 310/Del/82 filed on 19th April, 1982.

Divided out of application for Patent No. 48/Del/79 dated 25th January, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Claims

A process for the preparation of a new RNA-degrading protein, RNA-ase SPL, from seminalplasma, for use in biochemical, biological and biomedical research, comprising separating the supernatant, which consists of seminalplasma, from mammalian semen, dialysing said supernanant against a buffer solution, such as herein described, at pH of 5-9, treating the dialysed liquid with an anion exchanger, such as herein described treating the unadsorbed fraction obtained on said anion exchanger with a cation exchanger such as herein described, eluting the absorbed material at the cation exchange step using buffer such as herein described and an ionic gradient such as herein described to obtain three to four fractions, the third fraction or both third and fourth fractions together as obtained on elution at the last step being dialysed and lyophilised in the manners such as herein described to obtain crude product, subjecting the crude product to techniques as gel filtration, dialysing the filtrate against water and lyophilising the dialysate to lyophilisation, to obtain partially purified RNA-ase SPL.

Compl. specn. 12 pages. Drg. 2 sheets.

CLASS : 32C 155313

Int. Cl. : C07g 7/00.

PROCESS FOR THE PREPARATION OF A NEW RNA-DEGRADING PROTEIN, RNA-ase SPL, FROM SEMINALPLASMA IN PURE FORM.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860) AND MAX-PLANCK-INSTITUT FUR BIOPHYSIKALISCHE CHEMIE, KARL-FRIEDRICH-BONHOEFFER INSTITUT AM FASSBERG, D-3400 GOETTINGEN-NIKOLAUSBERG, WEST GERMANY, AN ORGANISATION FORMED AND EXISTING UNDER THE LAWS OF WEST GERMANY.

Inventor : KARL HEINZ SCHEIT, ERGAM REDDY SHYAM PRASAD REDDY, TANGIRALA RAMAKRISHNA MURTI, MADHUSUDAN WAMAN PANDIT AND PUSHPA MITRA BHARGAVE.

Application for Patent No. 311/Del/82 filed on 19th April, 1982.

Divided out of Application for Patent No. 48/Del/79 dated 25th January, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Claims

A process for the preparation of a new ribonuclease, an RNA degarding protein, RNA-ase SPL from seminalplasma, in pure form, for use in biochemical, biological and biomedical research comprising seperating the supernatant, which consists of seminalplasma, from mammalian semen, dialysing said supernatant against a buffer solution such as herein described at pH of 5–9 and passing the dialysed material through an affinity column such as a DNA-cellulose affinity column.

Compl. specn. 8 pages. Drg. 1 sheet.

CLASS : 70-C$_4$ 155314

Int. Cl. : B 01 k 3/02.

PROCESS FOR THE PRODUCTION OF ELECTRODES FOR ELECTROCHEMICAL PROCESSES.

Applicant & Inventor : DR. RAMASWAMY THANGAPPAN, SENTHIL CHEMICALS, 161, VELACHERY ROAD, EAST TAMBARAM, MADRAS-600 059, TAMIL NADU.

Application No. 207/Mas/81 filed November 16, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

2 Claims. No drawings.

A process for the production of an electrode comprising the steps of brushing a solution such as herein described over the cleaned and etched surface of a corrosion resistant base structure made out of expanded, perforated, tubular or solid bar mill products of metals such as herein described and thermally decomposing the said solution by means of baking the said structure at a temperature between 200°C to 710°C for 5 to 15 minutes and repeating the process of brushing and baking, the final baking being carried out at a temperature of 250°C to 750°C in presence of excess air for a period of 20 to 90 minutes.

Compl. specn. 11 pages.

CLASS : 92E+94C. 155315.

Int. Cl. : B02c 7/00.

AN IMPROVED ELECTRIC DOMESTIC MILLING APPLIANCE.

Applicant & Invertor : SURESH CHIMANLAL CHOKSI, A2-II, PRITHVI APARTMENT, ALTAMOUNT ROAD, BOMBAY-26, MAHARASHTRA, INDIA.

Application No. 5/Bom/1983 filed January 12, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

10 Claims

An improved electric domestic milling appliance comprising an electric motor unit and a housing for milling and air compressor mounted above the said motor unit and a hopper having a screw mechanism rigidly fixed to its bottom, mounted above the said housing; the said housing further comprising a rotating grinding stone and air vanes of the said air compressor mounted co-axially on a vertical rotating shaft connected to the rotor of said motor extending inside said housing and the said housing also having a bottom plate, with an air inlet to provide cool air to be mixed with the flour, being placed below the said air vanes; a tangential outlet nozzle provided at one end of the housing which is diametrically opposite to the said an inlet, the said screw mechanism, provided at the top having a fixed grinding stone rigidly fixed to its bottom and placed above the said rotating grinding stone in the housing, the gap whereof between the said two stones is adjustable by the said screw mechanism, which raises or lowers the fixed stone with the help of a gap adjusting handle and can be locked at the desired gap by a locking screw; a separator receiver covered at the top, having a pressurised atmosphere inside, removably fixed to the said tangential outlet nozzle of the said milling appliance, such that the flour which has been ground between the said stones, is thoroughly mixed with incoming cool air with the help of the said air vanes and thrown tangentially into the separator receiver through the said tangential outlet nozzle due to the centrifugal action of the air compressor and while the flour settles down in the receiver by centrifugal separation, the hot air escapes through a filter media covering the said receiver at the top.

Compl. specn. 8 pages. Drgs. 3 sheets.

CLASS : 57D. 155316.

Int. Cl. : E05f 3/00.

"A DOOR CLOSER HINGE ASSEMBLY".

Applicant : RAM SARUP KAUSHAL, AN INDIAN NATIONAL OF B-20, N.D.S.E. PART I, NEW DELHI-110 049 *INDIA*.

Inventor : RAM SARUP KAUSHAL.

Application for Patent No. 547/Del/80 filed on 28th July, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

2 Claims

A door closer hinge assembly which comprises of at least one spring hinge and at least one hydraulic hinge; the upper portion 1 of spring hinge having a flap 2 to be fixed to the panel and a circular body 3 with a hole 4 in the centre for insertion of a rod 5 which rotates with the movement of the door, the lower portion of spring hinge 6 having a flap 7 to be fixed to the frame and a circular cylinderical housing 8 having compression spring 9 whose one end 10 is hooked to the rod 5 and other end 11 is hooked to the circular cylinderical housing 8 the top of the circular cylinderical housing 8 is closed with nut 12 and provided with pin holes 13, 14 for adjusting the tension as desired in the compression spring 9, the upper portion 15 of the hydraulic hinge having a flap 16 to be fixed to the panel and a circular slotted body 17 with a hole 18 in the centre for insertion of piston rod 19, plurality of holes 20 on the surface of the circular slotted body 17 are provided for tightening of the piston rod 19 so that it rotates with the movement of the door, the lower portion 21 of the hydraulic hinge having a flap 22 to be fixed to the frame and a circular cylinderical housing 23 provided with hydraulic fluid chambers 24, 25 and piston rod 19, the lower part of the piston rod 19 has a valve V2 having a spherical ball 26 and its tapper sides having wire 27 to provide one way flow of hydraulic fluid in the hydraulic fluid chambers 24 25 the upper part of the piston rod 19 has a conical valve V1 which is adjusted by a screw 28 for the flow of the hydralic fluid in the hydraulic fluid chambers 24, 25, the top of the circular cylinderical housing 23 is closed with nuts, 29, 30 bush 31 and oil seal 32 to prevent leakage of the hydraulic fluid.

Compl. specn. 7 pages. Drgs. 6 sheets.

CLASS : 32F$_3$(a), F$_2$(b), C. 155317.

Int. Cl. : C07c 13/24, C07d 27/04.

"A PROCESS FOR THE PREPARATION OF 1-(p-(β-PYRROLIDINOETHOXY) PHENYL)-2-BENZYL-7-METHOXYBENZOSUBERAN USEFUL AS AN ANTIFERTILITY AGENT".

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI, 1, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : NARESH KUMAR SANGWAN, NIWAS RASTOGI, QAISAR JEHAN & BACHU SREENIVASULU SETTY.

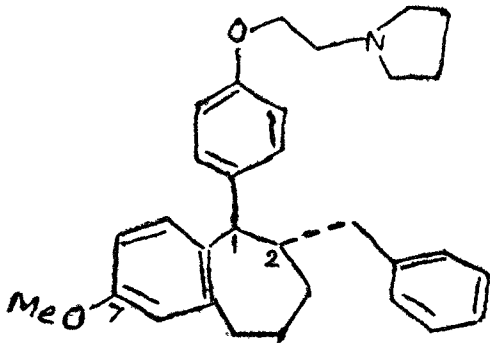
Application for Patent No. 933/Del/80 filed on 31st December, 1980.

Complete specification left on 30th March, 1982.

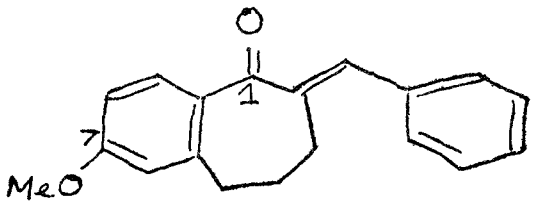
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

7 Claims

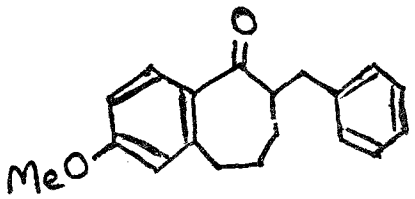
A process for the preparation of 1-)p-(β-pyrrolidinoethoxy) phenyl)-2-benzyl-7-methoxy benzosuberan of formula (I)



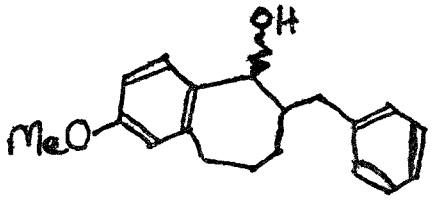
comprising subjecting 2-benzylidene-7-methoxy-1-benzosuberone of formula (2)



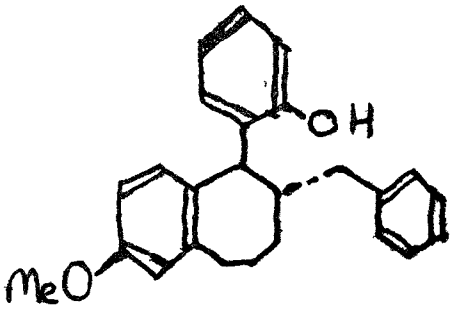
to hydrogenation to form 2-benzyl-7-methoxy-1-benzosuberone of formula (3),

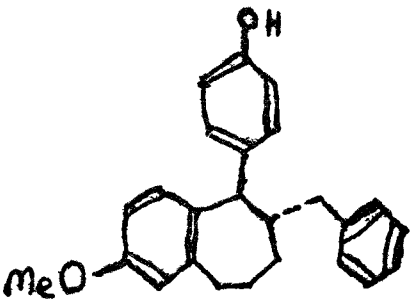


subjecting the compound of formula (3) to reduction to form 2-benxyl-7-methoxy-1-benzosuberol of formula (4)



reacting the compound of formula (4) with pehnol and dry HCl to obtain a product consisting of a mixture of I-(p-hydroxyphenyl)-2-benzyl-7-methoxy-benzosuberan of formula (6)





and 1-(o-hydroxyphenyl)-2-benzyl-7-methoxy-benzosuberan of formula (5)

separating the compound of formula (6) from the reaction mixture and reacting the same with N-(β-chloroethyl) pyrrolidine hydro-chloride to form the desired compound of formula (I).

Provisional specification 5 pages. Drg. 1 sheet.

Complete specification 8 pages.

CLASS : 64A, 97C. 135318.

Int. Cl. : H01h 37/00.

"A CAPILLARY TYPE CUT OUT FOR USE, FOR EXAMPLE, WITH AN IMMERSION HEATER".

Applicant : THERMO CONTROLS, A REGISTERED INDIAN PARTNERSHIP FIRM OF 11, VANDHNA BUILDING, 11 TOLSTOY MARG, NEW DELHI-110001, INDIA, WHOSE PARTNERS ARE AMITA KHANNA, NOMITA KHANNA, VED KAPOOR OF A-40, FRIENDS COLONY, New DELHI, INDIA, KISHAN PRASAD KAPOOR, POONAM KAPOOR OF C-19, FRIENDS COLONY, NEW DELHI, INDIA, KISHEN PRASAD SETHI FF A-16, FRIENDS COLONY, NEW DELHI, INDIA, KAVITA DHAWAN OF D-1029, NEW FRIENDS COLONY, NEW DELHI, INDIA, AND SANJAY GUJRAL OF 11 VANDHNA BUILDING, 11, TOLSTOY MARG, NEW DELHI-110001, AND ALL INDIAN NATIONALS.

Inventor : SANJAY GUJRAL.

Application for Patent No. 8/Del/81 filed on 7th January, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

2 Claims

A capillary type cut out comprising a capillary tube having at its one and a bulb, the opposite end of said capillary tube being connected to head member which is closed by a plate, said plate being of a concave form in its in operative position, oil disposed within said capillary tube which upon being heated to an elevated temperature is capable of exerting a pressure on said plate to deform the plate into a convex form so as to actuate a switching device to provide power

to a load, said switching device constituting a base plate provided with an opening, a stem of a push button extending through said opening, the terminating end of said stem bearing against first said plate, the push button carrying an arm having at its one end a fixed contact and at its opposite end a movable contact, the first said plate capable of being restored to its inoperative concave form from the convex form by applying a manual pressure to said push button of the switching device.

Compl. specn. 10 pages. Drg. one sheet.

CLASS : 85Q, 108B . 155319.

Int. Cl. : C21b 13/00, F27b 7/00.

"A PROCESS AND A SYSTEM FOR REDUCING MATERIALS CONTAINING IRON OXIDES".

Applicant : DAVY McKEE (STOCKTON) LIMITED, OF STOCKTON-ON TEES, ENGLAND TS18 3RE, A UNITED KINGDOM INCORPORATED COMPANY.

Inventors : VITIE PAUL KERAN AND ALAN CHRISTOPHER BAKER.

Application for Patent No. 31/Del/81 filed on 20th January, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

11 Claims

A process for directly reducing ore containing iron oxide using a solid carbonaceous material as the source of reductant and fuel in a rotary kiln having a feed end for receiving the ore therethrough and a discharge end for discharging the product therefrom and wherein charred reductant is removed from the discharge product and recycled to the kiln through the discharge end.

Compl. specn. 16 pages. Drgs. 2 sheets.

CLASS : 9 A. 155320.

Int. Cl. : C22c 21/00.

"A PROCESS FOR THE MANUFACTURE OF STRUCTURALLY REFINED SILUMIN".

Applicant : CHIEF CONTROLLER RESEARCH & DEVELOPMENT, MINISTRY OF DEFENCE, GOVERNMENT OF INDIA, NEW DELHI, INDIA, AN INDIAN NATIONAL.

Inventor : GADDE RADHA KRISHNA MURTHY.

Application for Patent No. 38|Del|81 filed on 22nd January, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

2 Claims

A process for the manufacture of structurally refined silumin which consists in heating and soaking of liqui-sol forged silumin billet/blank, said step of soaking being carried for a period of 1 to 2 hours, said step of heating being carried out at a temperature of between 400 to 500°C, subjecting said billet/blank to mechanical deformation of upto 90% at a temperature of between 350 to 450°C to obtain a refined spheroidal microstructure which can be retained nearing to its eutectric temperature.

Compl. specn. 6 pages. Drg. 1 sheet.

CLASS : 129. 155321.

Int. Cl. : B22d—11/00.

"METHOD OF AND APPARATUS FOR CONTINUOUS FRICTION-ACTUATED EXTRUSION".

Applicant : BICC LIMITED, OF 21 BLOOMSBURY STREET, LONDON WC1B 3QN, ENGLAND, A BRITISH COMPANY.

Inventors : JOHN BAIRD CHILDS & NORMAN REGINALD FAIREY.

Application for Patent No. 043/DEL/1981 filed on 22nd January, 1981.

Convention date 19th February, 1980/8005498/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

14 Claims

A continuous friction-actuated extrusion process comprising forming a passageway extending from an entry end to an exit end between an arcuate first member and a second member in the form of a wheel having a circumferential groove formed in its peripheral surface into which groove the first member projects while rotating the wheel in such a direction that those surfaces of the passageway constituted by the groove travel from the entry end towards the exit end, feeding metal into the passageway at the entry end and extruding it from the passageway through at least one die orifice located in or adjacent to an abutment member extending across the passageway at the exit end thereof *characterised* :

(a) by using as said abutment member, an abutment member which (instead of being large enough to block the end of the passageway) is of substantially smaller cross-sectional area than the passageway and is shaped to leave a substantial gap between the abutment member and the groove surface and

(b) by allowing the metal to adhere to the groove surface whereby a substantial proportion of the metal (as distinct from the inevitable leakage of flash through a working clearance) extrudes through the clearance and remains as a lining in the groove to re-enter the passageway at the entry end while the remainder of the metal extrudes through the die orifice(s).

Compl. specn. 18 pages. Drgs. 4 sheets.

CLASS : 85G. 155322.

Int. Cl. : F23c 7/00.

"A FLUIDIZED BED COMBUSTOR".

Applicant : FOSTER WHEELER POWER PRODUCTS LIMITED, A BRITISH COMPANY OF P.O. BOX 160, GREATER LONDON HOUSE, HAMPSTEAD ROAD, LONDON NW1 7QN, ENGLAND.

Inventors : ROBERT DOUGLAS STEWART & ROBERT LYNN GAMBLE.

Application for Patent No. 48/Del/81 filed on 27th January, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

9 Claims

A fluidized bed combustor comprising a housing; a plurality of substantially vertical partitions disposed in said housing and dividing said housing into a first chamber, a second chamber and a third chamber; means for establishing a bed of particulate material containing fuel in said first and second chambers; means associated with said partitions for permitting flow of said material from said first chamber to said second chamber and from said second chamber to said third chamber; means respectively associated with each chamber for passing air through each of said beds to fluidize the particulate material and promote the combustion of said fuel in said first and second chabers and to cool the material in said third chamber; means for adding fuel to the bed in said first chamber to maintain continuous combustion in said first chamber; and means associated with said third chamber to permit the continuous discharge of cooled particulate material from said third chamber.

Compl. specn. 14 pages. Drgs. 2 sheets.

CLASS : 69F. 155323

Int. Cl. : H01h 35/00.

"INERTIA SWITCH DEVICE".

Applicant : FIRST INERTIA SWITCH LIMITED, A BRITISH COMPANY OF BANCHORY WORKS, HARDINGS LANE, HARTLEY WINTNEY, HAMPSHIRE RG 27 8QA, ENGLAND.

Inventors : PETER RONALD JACKSON AND DAVID WILLIAM CRICK.

Application for Patent No. 49/Del/81 filed on 27th January, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

18 Claims

An inertia switch device comprising :

an inertia mass which is movable from a rest position when the device is subjected to an applied acceleration or deceleration in a horizontal plane;

a first electrical contact movable between first and second stable positions in one of which it engages a second electrical contact and in the other of which it no longer engages the second electrical contact; support means having a bifurcated portion on which is mounted a bifurcated portion of the first electrical contact; operating means engageable by the inertia mass, on movement of the inertia mass as a result of the applied acceleration or deceleration exceeding a threshold value, to move the first electrical contact from the first to the second stable position, the operating means comprising a first limb which is struck by the inertial mass when the threshold value is exceeded and a second limb having a bifurcated portion which is pivotally mounted on the support means but on the opposite side to the first electrical contact, resilient biassing means which lie within the bifurcated portions of the support means, the first electrical contact and the second limb and extend between the first electrical contact and the second limb and is movable "over centre" so as to bias the first electrical contact towards the first or second stable position depending on the position of the second limb; and resetting means comprising a reset member actuating a linkage which engages the resilient biassing means intermediate its ends to push the resilient biasing means "over centre" and thereby return the first electrical contact to its first stable position.

Compl. specn. 20 pages. Drg. 6 sheets.

CLASS : 85Q, 141D, $108B_1$. 155324

Int. Cl. C21b 11/00.

"PROCESS AND APPARATUS FOR DIRECTLY REDUCING ORE CONTAINING IRON OXIDES"

Applicant : DAVY McKEE (STOCKTON) LIMITED, STOCKTON-ON-TEES, ENGLAND, TS18 3RE, A UNITED KINGDOM INCORPORATED COMPANY.

Inventors : VITIE PAUL KERAN AND ALAN CHRISTOPHER BAKER.

Application for Patent No. 54/Del/81 filed on 29th January, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

12 Claims

A process for directly reducing ore containing iron oxides, in which a solid carbonaceous reducing agent is used as the source of the fuel and reductant in a rotary kiln fitted with air injection devices spaced along its length, and the reducing agent forms with the ore and other solid constituents added to the kiln a moving bed of solids therein, and in which the temperature profile of the bed of solids in the kiln is maintained such that the maximum possible temperature for non-sintering of the constituents occurs in the bed only in approximately the last third of the kiln and the temperature is maintained in the remainder of the bed to below said non-sintering temperature.

Compl. specn. 19 pages. Drg. 2 sheets.

CLASS : 136E. 155325

Int. Cl. : B29d 7/00.

"METHOD AND APPARATUS FOR FARBICATING, SURFACE TREATING AND CUTTING THERMOPLASTIC POLYMER SHEET".

Applicant : SIGNODE CORPORATION, ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 3600 WEST LAKE AVENUE, GLENVIEW, ILLINOIS 60025, UNITED STATES OF AMERICA.

Inventors : RUSSELL JOHN GOULD, YUKIO ANDREN MATSUNAGA AND DONALD LAWRENCE VAN ERDEN.

Application for Patent No. 56/Del/81 filed on 29th January, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

25 Claims

The method for producing an abrasion resistant sheet from linearly crystallizable polypropylene material, said method comprising the steps of :

(a) extruding said material in a sheet at a first temperature at which said material is rendered flowable;

(b) casting said sheet on plural driven, heat transfer casting rolls and feeding said sheet in a forward direction to form said sheet while maintaining said casting rolls at a temperature below said first temperature and cooling said sheet to a second temperature below said first temperature;

(c) feeding said sheet through a cooling bath to cool said sheet to a third temperature below said second temperature;

(d) feeding said sheet through heated and driven compression rolls to maintain said sheet at a fourth temperature, to compress said sheet, and to cause flow of said material in said sheet in the forward direction so as to reduce the cross-sectional thickness of said sheet;

(e) placing said sheet under tension with a tensioning means in the forward direction in conjunction with said compression rolls so as to cause orientation of the macromolecular chains in said material of said sheet as said sheet exits said compression rolls, said step of placing said sheet under tension including the steps of

(1) providing as part of said tensioning means one or more chill rolls and cooling said chill rolls so as to cool said sheet to a fifth temperature below said fourth temperature;

(2) providing as part of said tensioning means one or more surface treatment rolls and heating said surface treatment rolls for reheating a surface of said sheet to a sixth temperature above said fifth temperature and between about 250 degrees F. and about 525 degrees F. for a time period sufficient to cause surface fusion to a depth between about 0.1 mil and about 3 mils but for a time period insufficient to cause fusion in the entire thickness of said sheet; and

(3) providing as part of said tensioning means one or more stress relieving rolls and heating said stress relieving rolls to a seventh temperature below said sixth temperature so as to cause said sheet to reach a uniform temperature throughout its cross section for effecting stabilization of said sheet;

whereby the rolls of said tensioning means not only place said sheet under tension in conjunction with said compression rolls for effecting said orientation of the macromolecular chains, but also simultaneously effect said cooling of said sheet, said surface fusion of said sheet, and said stabilization of said sheet.

Compl. specn. 23 pages. Drg. one sheet.

CLASS : 87A. 155326

Int. Cl. A63b 21|00.

"PHYSICAL EXERCISER".

Applicant : COMPRET N. V. OF PAULUS POTTERSTRAAT 12, AMSTERDAM Z1, NETHERLANDS.

Inventor : ARTHUR HALE.

Application No. 2181/Cal/76 filed Dectmber 10, 1976.

Convention date : 16th January, 1976 (01830|76) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

An exerciser comprising a pair of handgrips, relatively slidable rigid guide members connected to the handgrips for guiding movement of the handgrips towards and away from one another and a pair of ellastically deformable rods connecting the handgrips such that movement together of the handgrips causes the rods to bend outwards and outward pulling of the rods moves the handgrips together with the rods providing at least the majority of the resistance to movement together of the handgrips.

Compl. specn. 6 pages. Drg. 1 sheet.

CLASS : 128-A & G 155327

Int. Cl. : A 61 g 7/04.

AN ASSEMBLY FOR MANAGEMENT OF INCONTINENCE.

Applicant : NICHOLAS PROPRIETARY LIMITED, OF 69), WARRIGAL ROAD, CHADSTONE, VICTORIA, AUSTRALIA.

Inventors : 1. WILLIAM KYLE, 2. BRUCE HERBETT LEE.

Application No. 49/Cal/77 filed January 14, 1977.

Convention dated 3rd February, 1976 (PC 4702), 12th February, 1976 (PC 4831) and 1st April, 1976 (PC 5435) Australia.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

47 Claims

An assembly for the management of incontinence comprising : at least one layer of non-absorbent hydrophobic textile material through which urine can freely pass and at least one layer of absorbent hydrophilic textile material being formed of aligned cellulosic staple fibres of at least and absorb urine passing through the non-absorbent layer being fromed of aligned cellulosic staple fibres of at least 0.5 inch length and denier in the range 2 to 7 formed into a cross-laid web and needled to form a felt which will absorb at least 350% by weight of urine based upon its dry weight and will disperse urine laterally by capillarity throughout the felt.

Compl. specn. 35 pages. Drg. 1 sheet.

CLASS : 40-F 155328

Int. Cl. : B 01 d 9/00.

EQUIPMENT FOR THE TREATMENT OF WET SOLIDS, FSPECIALLY PULPY MATERIALS BY HEATING OR COOLING.

Applicant : RICHTER GEDEON VEGYESZETI GYAR RT., OF 19, GYOMROI UT, BUDAPEST X., HUNGARY.

Inventors : 1. DR. ISTVAN TAKACS, 2. ZOLTAN BANOS, 3. PETER RUDOLF, 4. GYORGY KEREY, 5. JANOS ILLES, 6. ENDRE VERECZKEY.

Application No. 957/Cal/80 filed August 21, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims

Equipment for the treatment by heating, or cooling of wet solids, slurries, suspensions, pulps and similar materials, more particularly for the dewatering in vacuum of lumpy, granular material of low moisture content wetted with solvent; for the perliminary dewatering of pulpy materials by cooking; for the freezing of solids, for instance fruits, animal organs and for the extraction of the solid substance content of solutions by crystallization, said equipment having a treating body, a device to feed the material to be treated into the treating body, a device to discharge the treated material from the treating body and a device to introduce the heating or cooling medium into the range of the external surfaces of the treating body, characterized by the treating body having two sections the first of which has a horizontally arranged truncated cone or truncated pyramid shaped treating drum, rotatable around a horizontal or near-horizontal longitudinal geometrical axis, the side walls and end plates of which are formed by solid material preferably by plate metal, a material feeding pipe leading through the smaller end plate, while its larger end plate has an opening arranged eccentrically in relation to the symmetry axis and the second section of the treating body is rigidly connected to the opening, thus rotatably to the treating drum, said treating body having at least three durm-like oblong treating members opening into each other, the side walls of which are formed by solid material, preferably plate metal, and the geometrical longitudinal symmetry axes of said treating members form a zig-zag or similar line, intersecting the geometrical symmetry axis of the treating drum outside the treating drum, said symmetry axis being the common axis of rotation of the treating body-part consisting of the treating drum and treating members forming the second section of the treating body.

Compl. specn. 30 pages. Drgs. 5 sheets.

CLASS : 205-H 155329

Int. Cl. : B 60 c 9/00.

AN IMPROVED TIRE.

Applicant : MICHELIN & CIE. (COMPAGNIE GENERALE DES STABILLIASEMENTS MICHELIN), OF 4, RUE DU TERRAIL, 63040 CLERMONT FERRAND, FRANCE.

Inventors : 1. JEAN-PIERRE CESAR, 2. JACQUES GOUTIEBESSIS, 3. ANDRE SCHNEIDER.

Application No. 677/Cal/81 filed June 23, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims

A tire produced from at least one liquid or paste material which solidifies in a mold to form the elastomeric material of the tire, consisting of a crown with two shoulders each connected to a sidewall terminating in a bead containing at least one bead ring characterized by the fact that it comprises radial hoops wh ich are equally spaced apart in the longitudinal direction of the tire, are dentical, consists at least in part of a moldable material, are embedded in the elsatomeric material of the tire, are con inuous from one bead to the other and are provided at each of their ends with a hook within which the bead ring is arranged, the hook being provided with at least one extension which extends up to a wall of the tire.

Compl. specn. 13 pages. Drg. 1 sheet.

CLASS : 40-B & 139-D 155330

Int. Cl. : C01b 1/00, B 01 j 11/00.

"PHOTOLYTIC PRODUCTION OF HYDROGEN FROM WATER".

Applicant : ENGELHARD CORPORATION, OF 70 WOOD AVENUE SOUTH, METRO PARK PLAZA, ISELIN, NEW JERSEY 08830, U.S.A.

Inventors : MICHAEL GRATZEL, PIERRE-ALAIN BRUGGER, AND PIERRE CUENDET.

Application No. 745/Cal/81 filed July 4, 1981.

Convention date 8th July 1980 (80/22339) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A method for preparing a stabilized noble metal catalyst capable of forming a stable dispersion in an aqueous medium; for mediating the photolytic production of hydrogen from water which comprises :

(1) adding a reducible Noble metal compound or mixture of Noble metal compounds to an aqueous medium;

(2) reducing said Noble metal compound or mixture of Noble metal compounds by conventional method; and

(3) adding to the resulting mixture of step (2) a protective agent selected from the group consisting of one or more alkylene glycol polymers derived from monomer units of the formula $-O-(CH_2)_n-O$ wherein n is an integer of at least 2 and in which at least a portion of said polymer is comprised of monomer units having n equal to or greater than 3.

Compl. specn. 34 pages. Drgs. 5 sheets.

CLASS : $32F_2c$ 155331

Int. Cl. : B 01 j 2/30.

"PROCESS FOR THE PREPARATION OF NON-CAKING AND NON-DISTING UREA GRANULES".

Applicant : UNIE VAN KUNSTMESTFABRIEKEN B.V. OF MALIEBAAN 81, 3581 CG UTRECHT, THE NETHERLANDS.

Inventors : WILHELMUS HENDRIKUS JOHANNES ACKERMANS & MICHAEL HENDRIK WILLEMS.

Application No. 1041/Cal/81 filed September 18, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

Process for the preparation of non-caking and non-dusting urea granules by treating the granules with a polyalkylene glycol, characterized in that the granules are coated with 0.1–0.3 wt.% of a polyalkylene glycol having a molecular weight of approx 200 to approx. 600.

Compl. specn. 10 pages. Drgs. Nil.

CLASS : 119-E 155332

Int. Cl. : D03d 49/20.

"CLOTH TAKE-UP MOTION FOR LOOMS".

Applicant : LINDAUER DORNIER GESELLSCHAFT, m.b.H., OF 899 LINDAU, BODENSEE, FEDERAL REPUBLIC OF GERMANY.

Inventors : HANS-JURGEN MAIERHOFER & HANS GEIGER.

Application No. 207/Cal/76 filed February 4, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

In a cloth take-up motion for looms with gradual taking-up of the cloth in which a take-up roller is adapted to be driven by drive shaft means and gear system means, and wherein the drive shaft executes one revolution with each weft, the improvement which comprises : crank means and pin means on said drive shaft means, means axially displaceably mounting said pin means in said crank means,

Geneva wheel means in which said pin means is adapted to engage, electromagnet means and shifting linkage means whereby said pin means is adapted to be engaged in and disengaged from said Geneva wheel means, and reduction gear means connecting said Geneva wheel means with said take-up roller.

Compl. specn. 7 pages. Drgs. 4 sheets.

CLASS 136-E 155333

Int. Cl. : B 23 d 3/00.

"DEVICE FOR SAWING SLOTS IN PLASTICS PIPES".

Applicant : PREUSSAG AKTIENGESELLSCHAFT, OF ARNDTSTRASSE 1. 3 HANNOVER 1, FEDERAL REPUBLIC OF GERMANY.

Inventor : DIETER HOPF.

Application No. 245/Cal/76 filed February 10, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A device for the sawing a slots in plastica pipes for the production of filter pipes, especially perforated well casings, comprising a holder for the pipe and comprising a saw which is mounted to be capable of movement substantially radially with respect to the pipe, characterised in that the saw comprises a number of saw blades disposed alongside one another in the axial direction of the pipe.

Compl. specn. 10 pages. Drgs. 2 sheets.

CLASS : 150-G 155334

Int. Cl.: F 16 c 19/00.

"PIPE SEAL".

Applicant: HUMES LIMITED OF 185 WILLIAM STREET, MELBOURNE, IN THE STATE OF VICTORIA, AUSTRALIA.

Inventors : CLIFFORD AUBREY BAKER, & NORWOOD LESLIE HARRISON.

Application No. 708/Cal/76 filed April 23, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims

A pipe seal for effecting a seal between an outer tubular surface of an inner member and the inner tubular surface of an outer member, which comprises an annular sealing member which fits into an annular recess in the outer member and the inner surface of which is in pressure contact with the outer tubular surface of the inner member, the said annular sealing member being formed of resilient material and having an annular non-extendable member which substantially absorbs the outward radial forces resulting from the compression of the annular sealing member and which substantially prevent the transmission of the said radial forces to the outer member.

Compl. specn. 14 pages. Drg. 1 sheet.

CLASS : 172-D_6 155335

Int. Cl. : D01h 1/08.

A MODULAR SECTION TO BE INSERTED AS A UNIT INTO AN OPEN END SPINNING MACHINE.

Applicant : BARBER-COLMAN COMPANY, OF 1300 ROCK STREET, ROCKFORD, ILLINOIS 61101, UNITED STATES OF AMERICA.

Inventor : RICHARD ARTHUR SCHEWE.

Application No. 764/Cal/76 filed April 30, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

32 Claims

A modular section to be inserted as a unit into an open end spinning machine, said section comprising an elongated rigid backbone, a plurality of open end spinning units, means for mounting said spinning units on the backbone at predetermined spaced spinning stations, a plurality of winding units, and means for mounting said winding units on said backbone in predetermined relation to the spinning units.

Compl. specn. 12. Drg. 1 sheet.

CLASS : 9-D; 108-C_3 155336

Int. Cl. : C 22 c 39/46.

PROCESSING FOR CUBE-ON-EDGE ORIENTED SILICON STEEL.

Applicant : ALLEGHENY LUDLUMS STEEL CORPORATION, OF 2000 OLIVER BUILDING, CITY OF PITTSBURGH, COMMONWEALTH OF PENNSYLVANIA, UNITED STATES OF AMERICA.

Inventor : 1. FRANK ANGELO MALAGARI, JR.

Application No. 770/Cal/76 filed May 3, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

In a process for producing boron-bearing, electromagnetic silicon steel having a cube-on-edge orientation, which process includes the steps of : preparing a melt of silicon steel containing from 0.02 to 0.06% carbon, from 0.0006 to 0.0080% boron, up to 0.0100% nitrogen and from 2.5 to 4.0% silicon, casting said steel; hot rolling said steel; cold rolling said steel; decarzurizing said steel; and final texture annealing said steel; the improvement comprising the step of decarburizing said steel to a carbon level below 0.02% in a hydrogen-bearing atmosphere having a dew point of from $-20°F$ to $+60°F$.

Compl. specn. 10 pages. Drg. Nil.

CLASS : 32-F_8 (a); 40-B 155337

Int. Cl. : B 01 j 11/00, 11/20; C 07 d 1/14.

A PROCESS FOR PREPARING A CATALYST CONTAINING 2 TO 20 WEIGHT PERCENT SILVER DEPOSITED ON A SUPPORT FOR THE COMMERCIAL SCALE PRODUCTION OF ETHYLENE OXIDE.

Applicant : UNION CARBIDE CORPORATION, AT 270 PARK AVENUE, NEW YORK STATE OF NEW YORK, 10017, UNITED STATES OF AMERICA.

Inventors : 1. MADAN MOHAN BHASIN, 2. PAUL CLIFFORD ELLGEN, 3. CHARLES DEAN HENDRIX.

Application No. 308/Cal/80 filed March 18, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

16 Claims

A process for preparing a catalyst containing 2 to 20 weight percent silver deposited on a support for the commercial-scale production of ethylene oxide by the vapor phase oxidation of ethylene with an oxygen-containing gas comprising :

(1) Impregnating a porous support which is in a form and size for use in a reactor used in a commercial operation for the manufacture of ethylene oxide with a solution comprising a solvent or solubilizing agent, silver slat sufficient to deposit the desired amount of silver on said support, and alkali metal salts; and

(2) heating the impregnated support at a temperature of from about 100°C to 900°C for a period of time to convert at least a fraction of the silver salt to silver metal and effect deposition of silver and alkali metal on the surface of the support, characterized in that the support is a macroporous support having a surface area less than $10m^2/g$ and the alkali metal salts comprise a combination of (a) cesium and (b) at least one other alkali metal selected from the group consisting of lithium, sodium, potassium and rubidium, which combination comprises (a) and (b) in amounts in relation to the amount of silver in the catalyst sufficient to provide an efficiency of ethylene oxide manufacture that is greater than the efficiencies obtainable under common conditions from respective catalysts which are the same as said catalysts except that instead of containing both (a) and (b) one contains a respective amount of (a) and the other contains a respective amount of (b).

Compl. specn. 75 pages. Drg. 2 sheets.

CLASS : 32-F_1; 32-F_2 b; 55-E_4; 60-X_2 d 155338

Int. Cl. : C 07 d 49/36.

PROCESS FOR THE PREPARATION OF 2-NITROIMIDAZOLES.

Applicant : F. HOFFMANN-LA ROCHE & CO. AKTIENGESELLSCHAFT, 124–184 GRENZACHERSTRASSE, BASLE, SWITZERLAND.

Inventors : 1. WERNER HOFHEINZ, 2. HARRO STOHLER.

Application No. 537/Cal/81 filed May 21, 1981.

Complete specification left dated 30th April, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

1 Claim

A process for the manufacture of 2-nitroimidazoles of the general formula I shown in the drawings accompanying the provisional specification.

wherein A represents one of the groups of the formula VIII shown in the drawings accompanying the provisional Specification $-C(R^3)=C(R^1)(R^2)$, $-CHBr-CH_2Br$ or $-CH_2-CCl=CH_2$; n stands for 1, 2, 3 or 4; R^1 and R^2 represent C_{1-3}-alkyl and R^3 represents C_{1-3}-alkyl, chlorine or bromine, which process comprises reacting azomycin with disubstituted aliphatic hydrocarbon of the formula $Y-(CH_2)_n-Y$ or $Y-CH_2-CCl=CH_2$, wherein Y represents halogen or a cleavable group.

Compl. specn. 14 pages. Drg. Nil.

Provisional specn. 19 pages. Drg. 2 sheets.

CLASS : 160-C 155339

Int. Cl. : B 60 s 1/40.

CARRIER FOR A WINDSCREEN WIPER.

Applicants & Inventors : MALCOLM HENRY BLACKBOROW OF 10 CLARENCE ROAD NORTH, SOUTH BENFLEET, ESSEX, ENGLAND AND MARLYN LANGLEY OF 58 BARNCROFT CLOSE, LOUGHTON, ESSEX, ENGLAND.

Application No. 1021/Cal/81 filed September 10, 1981.

Convention dated 12th September, 1980 (8029643) U.K.
6th October, 1980 (8032071) U.K.
19th January, 1981 (8101500) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

20 Claims

A windscreen wiper blade carrier fitted with blade retaining means at each end and at spaced intervening points and which is adjustable so as to permit the attachment to the carrier of wiper blades of a plurality of different lengths, characterised in that the carrier includes a stem which is adjustable in length at each end.

Compl. specn. 16 pages. Drg. 3 sheets.

CLASS : $32F_2b$, $55E_4$ & $60X_nd$. 155340

Int. Cl. : C 07 d 99/06.

PROCESS FOR THE PREPARATION OF 5, 6, 7, 7a-TETRAHYDRO-4H-THIENO (3, 2-C) PYRIDIN-2-ONES.

Applicant : SANOFI, OF 40 AVENUE GEORGE V. 75008, PARIS, FRANCE.

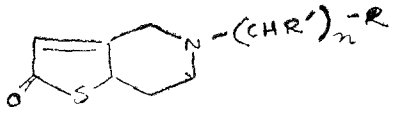
Inventors : NORIO SUZUKI, 2. KYNICHI MATSUBAYACHI & SHINICHIRO ASHIDA & JEAN-PIERRE MAFFRAND, 5. ROBERT BOIGEGRAIN.

Application No. 1235/Cal/81 filed November 6, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

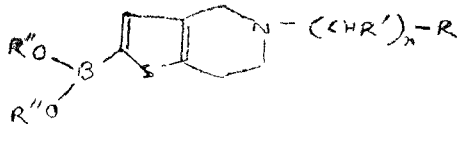
4 Claims

Process for the preparation of derivatives of 5, 6, 7, 7a-tetrahydro-4H-thieno [3, 2-C] pyridin-2-one of the general formula 1 as shown in the accompanying drawings.



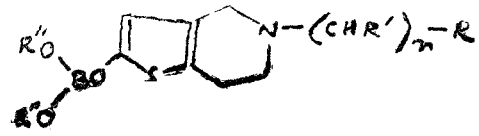
in which R is a hydrogen atom or a phenyl radical, which is optionally substituted by at least one halogen atom or lower alkyl radical lower alkoxy radical, nitro group carboxyl group, alkoxy-carbonyl radical or cyano group R' is a hydrogen atom or a lower alkyl radical and n is 0, 1, 2, 3 or 4 and of the addition salts thereof with pharmaceutically acceptable mineral or organic acids, wherein :

(a) a boronic acid derivative of the general formula (V) as shown in the drawings.



in which R, R' and n have the same meanings as above and R'' is a hydrogen atom or a lower alkyl radical, is oxidised, and

(b) the boric acid derivative obtained of the general formula (VI) as shown in the drawings.



in which R, R', R'' and n have the same meanings as above, is hydrolysed to give a compound of general formula 1.

Compl. specn. 29. Drg. 2 sheets.

CLASS : $32F_1$ & F_2b & $55\text{-}D_2$ $60X_1$ 155341

Int. Cl. C07 d 31/00, A0/n 9/00.

A PROCESS FOR MANUFACTURING A PYRIDINE-CARBINOL COMPOUNDS AND SALTS THEREOF.

Applicant : BASF AKTIENGESELLSCHAFT, AT 6700 LUDWIGSHAFEN, FEDERAL REPUBLIC OF GERMANY.

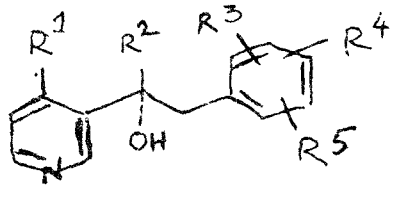
Inventors : ERNST BUSCHMANN, (2) EBERHARD AMMERMANN & ERNST-HEINRICH POMMER.

Application No. 782/Cal/82 filed July 5, 1982.

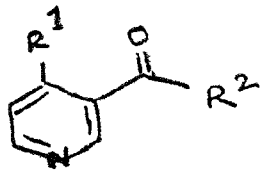
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

1 Claim

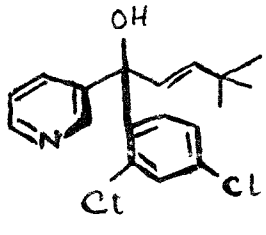
A process for manufacturing a pyridinecarbinol of the formula 1.



wherein R^1 is hydrogen or alkyl of 1 to 6 carbon atoms, R^2 is alkyl of 1 to 6 carbon atoms, or alkenyl of 3 to 6 carbon atoms and R^3, R^4 and R^5 are each independently of one another, hydrogen, chlorine, bromine, fluorine or alkyl of 1 to 4 carbon atoms and the plant physiologically-tolerated acid addition salts such as herein described thereof, wherein an acylpyridine of the formula II.



wherein R^1 and R^2 have the above meanings, is reacted in the presence of a solvent such as herein described, with an organo-metallic compound of the formula III.



where M is Li, Na, MgBr or MgCl and R^3, R^4 and R^5 have the above meanings.

Compl. specn. 21 pages. Drg. 1 sheet.

CLASS : 26 155342

Int. Cl. : A 46b 9/00.

A TOOTHBRUSH AND A METHOD FOR MAKING THE SAME.

Applicants : GEORGE CHRIST COLLIS, 313, WEST 48TH STREET, MINNEAPOLIS, MINN. 55407, U.S.A.

Application No. : 288/Bom/1981 filed October 15, 1981.

AUSTRALIA CONVENTION PRIORITY DATE 4-8-1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972), Patent Office, Bombay Branch.

11 Claims

A toothbrush comprising a handle supporting a bristle-mounting head and plurality of bristles bonded in bristel-mounting head characterised in that a pair of bristles being formed from two sides of a bundle of monofilaments of predetermined equal lengths whose central portion is bonded or fused in the bristle-mounting head and pairs for bristles being disposed in even number of parallel rows symmetrically about the axis of the bristle-mounting head and in planes perpendicular to the bristle-mounting head, each pair of respective bristles being moulded to a configuration wherein their free ends are made to face each other leaving a space adapted for the tooth to pass through, the toothbrush, having optionally, a central row of short vertical bristles along the axis of the bristle-mounting head.

Complete specn. 12 pages Drg. 2 sheets.

CLASS : 63-B & E 155343

Int. Cl. : H 02 k 9/00.

ROTARY ELECTRIC MACHINE.

Applicant : GANZ VILLIAMOSSAGI MUVEK. OF 1024 BUDAPEST LOVOHAZ U. 39, HUNGARY.

Inventors : MIHALY WALLENSTEIN.

Application No. 97/Cal/76 filed January 16, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

A rotary electric machine, comprising a cylindrical rotor in which coil slots receive conductors of a rotor winding, an extension region formed below each of the coil slots not receiving the conductors of the rotor winding, cooling channels lying in planes having their normals substantially perpendicular to the rotor axis, and formed in or between the conductors of the rotor winding adjacent cooling channels being connected to each other and the cooling channel nearest to the rotor axis being connected to the extension region and the cooling channel farthest from the axis being connected to inlet and outlet ports landing to an airgap surrounding the rotor of the rotary electric machine and displaced from each other in the axial direction.

Compl. specn. 16. Drg. 4 sheets.

CLASS : 15-A 155344

Int. Cl. : F 16 c 17/04.

IMPROVEMENTS IN OR RELATING TO BEARINGS.

Applicant : THE GLACIER METAL COMPANY LIMITED, OF 368 EALING ROAD, ALPERTON. WEMBLEY, MIDDLESEX. ENGLAND.

Inventors : ALAN GEORGE PRICE AND DAVID GORDON MITCHELL.

Application No. 251/Cal/76 filed February 11, 1976.

Convention date February 12, 1975 (5900/75) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

A bearing comprising a cast block and a white metal lining at the bearing surfaces of the block the lining being bonded to an insert in a recess in the block the block having been cast around the insert covering the surface opposite the surface to which the lining is bonded and covering edges of the insert.

Comp. specn. 5 pages. Drg. 1 sheet.

CLASS : 33F 155345

Int. Cl. : B 22 d 15/00.

IMPROVEMENTS IN OR RELATING TO CASTING.

Applicant : W. H. BOOTH & CO. LIMITED, OF RODGER STREET, ROTHERHAM, YORKSHIRE, ENGLAND.

Inventors : FREDERICK HERBERT HOULT.

Application No. 296/Cal/76 filed February 18, 1976.

Convention date 22nd February 1975 (7528/75) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

A horizontal mould arrangement for use in the casting of molten metal comprising several mouls secured in side-by-side relationship, each casting mould having a feed cavity, at least one mould cavity lying below the feed cavity, at least one ingate connecting the feed cavity to the or each mould cavity the upper part of each mould having a runner section, the runner sections of all the moulds forming a horizontally disposed runner for the mould arrangement, and there being a casting funnel associated with the horizontally disposed runner, the horizontal runner being formed with a number of weirs with a weir lying to each side of the ingate or ingates of a mould, adjacent weirs defining between them a well serving as part of the runner during the passage of molten metal to successive mould cavities and as the feed cavity from where molten metal passes to a mould cavity through an ingate, the minimum cross-section of the runner above the weir being equal to or greater than the total cross-sectional area of the ingate or ingates of a mould.

Compl. specn. 20 pages. Drg. 4 sheets.

CLASS : 172-D, 155346

Int. Cl. : D 01 h 7/66.

IMPROVEMENTS IN A RELATING TO AN OPEN END, SPINNING MACHINE.

Applicant : BARBER-COLMAN COMPANY, 1300 ROCK STREET, ROCKFORD, ILLINOIS 61101, UNITED STATES OF AMERICA.

Inventor : RICHARD ARTHUR SCHEWE.

Application No. 729/Cal/76 filed April 27, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

In a spinning machine a spinning station having an opening roll, and enclosure for said roll, a spinning chamber, a passage between the enclosure and said spinning chamber for opened fibers, a first vacuum port in the spinning chamber, a cleaning chamber, an opening between the enclosure and said cleaning chamber allowing foreign material to pass therethrough, a second vacuum port in the cleaning chamber, wherein the improvement comprises a

single vacuum source at said spinning station connected through said first and second vacuum ports to said chambers, said source providing sufficient vacuum to draw the opened fibers through said and to remove the foreign material from said cleaning chamber.

Compl. specn. 7 pages. Drg. 1 sheet.

CLASS : 131-C 155347

Int. Cl. : E 21 c 25/00.

APPARATUS FOR EXTRACTING OR WINNING MINERAL MATERIAL IN MINES.

Applicant : GEWERKSCHAFT EISENHUTTE WESTFALIA, OF D-4670 LUNEN, WEST GERMANY.

Inventors : 1. HELMUT LANGENBERG, 2. HANSTH. GRISEBACH, 3. HEINZ WEINHOLD.

Application No. 256/Cal/81 filed March 10, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims

Apparatus for extracting or winning mineral material in mines from pillars left between laterally spaced roadways or galleries by the bord-and-pillar mining process, the apparatus comprising an arcute longwall conveyor extending between the roadways across a plurality of pillars, mechanical winning means for winning mineral material in a non-uniform manner from said pillars, and a roof support assembly for supporting the roof of the working.

Compl. specn. 16 pages. Drg. 3 sheets.

CLASS : 90-E+I; 97-E 155348

Int. Cl. : C 03 b 5/26.

FREEZE VALVE FOR GLASS MELTING FURNACE.

Applicant : DORYOKURO KAKUNENRYO KAIHATSU JIGYODAN, OF 9-13, 1-CHOME, AKASAKA, MINATO-KU, TOKYO, JAPAN.

Inventor : NORIAKI SASAKI.

Application No. 548/Cal/81 filed May 25, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A freeze valve to be equipped at a molten glass discharging nozzle disposed at the bottom of a glass melting furnace, which freeze valve comprises :

at least two sets of temperature control units each having heating-cooling means therein,

said temperature control units being provided around the glass discharging nozzle so as to be arranged in series each other in the longitudinal direction of the nozzle;

a heat insulating element inserted between said temperature control units and adapted to thermally insulate said temperature control units from each other to thereby heat and cool independently each of an upper and lower portions of said nozzle; and

means for ejecting a high-pressure gas disposed at the lower end of said nozzle and adapted to eject the high-pressure gas toward the axis of said nozzle.

Compl. specn. 13 pages. Drg. 1 sheet.

CLASS : 5-D 155349

Int. Cl. : A 01 g 9/00.

A PLANT GROWING UNIT, METHOD AND SYSTEM.

Applicant : BONAR HORTICULTURE LIMITED, FORMERLY KNOWN AS JOLARCH LIMITED, OF 63/73 KING STREET, DUNDEE, SCOTLAND.

Inventor : BERNARD SANDERS.

Application No. 671/Cal/81 filed June 20, 1981.

Convention dated 20th June, 1980 (8020224) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A plant growing unit which is generally flexible and comprises upper and lower compartments formed of flexible plastics materials the flexible upper compartment constituting a plant root-ball container, open for upward growth of a plant when placed in the container, and the flexible lower compartment constituting a reservoir for water, level restricting means for establishing a level of water in the reservoir which in use of the unit results in an air space between the water level and the root-ball of a plant when in the container, and one or more openings between the upper and lower compartments allowing root growth form the container to the reservoir.

Compl. specn. 13 pages. Drg. 1 sheet.

CLASS : 32-F_2 a. 155350.

Int. Cl. : C07c 127/16.

A PROCESS FOR THE PREPARATION OF THE BUCYCLOOXY-PHENYL UREAS.

Applicant : UNION CARBIDE CORPORATION, AT 270 PARK AVENUE, NEW YORK, STATE OF NEW YORK 10017, UNITED STATES OF AMERICA.

Inventor : 1. PAUL ALFRED CAIN.

Application No. 1136/Cal/81 filed October 15, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

36 Claims

A process for the preparation of the compound of the formula I,

wherein M represents a monocyclic aromatic ring system or a monocyclic heterocyclic ring system containing up to 2 nitrogen atoms, and wherein the rings can contain up to 2 nitrogen atoms, and wherein the ring can contain up to m number of X substituents (m has a value of from 0 to 4) wherein each X individually can be halogen, nitro, cyano, or alkyl, polyhaloalkyl, alkoxy or polyhaloalkoxy of from 1 to 3 carbon atoms;

Z and Z^1 individually are hydrogen or alkyl of from 1 to 8 carbon atoms, or alkyl of from 1 to 8 carbon atoms which is substituted with at least one of halogen, hydroxyl or alkoxy;

Y individually represents halogen, or alkyl, polyhaloalkyl, alkoxy or polyhaloalkoxy of from 1 to 3 carbon atoms, and n has a value of from 0 to 4;

B is a bicyclic fused ring system which is attached to the oxygen through a carbocyclic ring and wherein (a) at least one ring is a six-membered, unsaturated carbocyclic ring which can contain up to two R and R^1 substituents wherein R and R^1 can be halogen, nitro, cyano, amino, formamido, fomamidino, phenyl-sulfenyl, phenylsulfinyl, phenylsulfonyl, phenyl-sulfenyl, phenyl-sulfamide wherein the phenyl ring optionally may be substituted with one or more halogen, nitro, or alkyl, polyhaloalkyl, alkoxy or polyhaloalkoxy of from 1 to 3 carbon atoms, or R and R^1 individually are alkyl, alkoxy, polyhaloalkyl, polyhaloalkoxy, alkenyloxy poly-

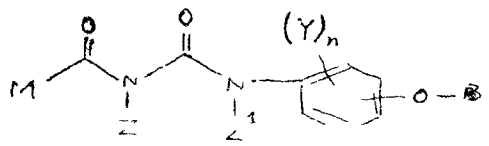
haloalkenyloxy, alkynyloxy, polyhaloalkynyloxy, alkylsulfenyl, polyhaloalkylsulfenyl, alkylsulfinyl, polyhaloalkylsulfinyl, alkylsulfonyl, polyhaloalky-sulfonyl,mono- or di-alkylsuffamido, mono- or di-alkylamino, alkylcarbonyl-amino, alkoxycarbonylamino, mono- or di-alkylaminocarbonyloxy of up to 6 carbon atoms, and (b) the second ring, hereinafter also referred to as A, when it is not a five or six-membered carbocyclic can be a five or six-membered saturated or unsaturated hetero-cyclic ring which can contain in any combination carbonyl or one or two oxygen or sulfur, and up to two R^3 and R^3 substituents attached to unsaturated ring carbon atoms wherein R^3 and R^3 individually can be halogen, nitro, cyano, or alkyl, polyhaloalkyl, alkoxy, polyhaloalkoxy, alkylthio, arylthio, alkylsufinyl, arylsulfinyl, alkylsulfonyl, arylsulfonyl, alkylsulfamido, arylsulfamido, alkoxy-carbonylamino, or alkylcarbonylamino of from 1 to 6 carbon atoms, or can contain up to two R^4 and R^5 substituents attached to saturated carbon-atoms of the chain wherein R^4 and R^5 individually can be alkyl or polyhaloalkyl of from 1 to 6 carbon atoms;

with the proviso that when B is a naphthyl group attached through an oxygen to the number 4 carbon atom of the phenyl group, then (a) if X is halogen and is nono or disubstituted in the ortho position of a benzoyl ring (b) if Z, Z^1, R^2 and R^6 are hydrogen and (c) if Y represents a halogen substituted at the number three carbon atom of the phenyl ring, or if such carbon atom contains only hydrogen, then R and R^1 cannot both be hydrogen or halogen or a combination of hydrogen and halogen,

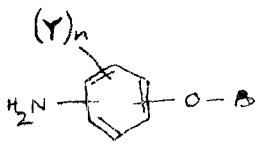
which comprises—

reacting a benzoylisocyanate of the formula L_1 of the drawings

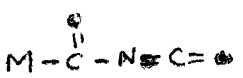
with a aniline of the formula LII of the drawings



wherein X Y, m, n, and B have the same meanings as given above and thereafter recovering the compound of formula I.



L II



L I

Compl. specn. 85 pages. Drgs. 7 sheets.

CLASS : 32-E; 152-E. 155351.

Int. Cl. : C08g 49/00.

COMPOSITIONS OF COATED WATER-SOLUBLE POLYMERS FOR USE IN AN ENHANCED OIL RECOVERY AND THEIR MANUFACTURE.

Applicant : INSTITUT FRANCAIS DU PETROLE, 4. AVENUE DE BOIS PREAU, 92502 RUEIL-MALMAISON, FRANCE.

Inventors : 1. FRANCOIS DAWANS, 2. DANIEL BINET, 3. NORBERT KOHLER, 4. QUANG DANG VU.

Application No. 830/Cal/81 filed July 23, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims

A solid composition of coated water-soluble polymer characterized in that it comprises :

(a) from 80 to 250 part by weight of solid particles of at least one water-soluble polymer coated with

(b) 100 parts by weight of at least one paraffinic product solid at room temperature.

Compl. specn. 13 pages. Drg. Nil.

CLASS : 32-F_2 b. 155352.

Int. Cl. : C07d 49/34.

PROCESS FOR THE PREPARATION OF PYRIDYL AND QUINOLYL IMIDAZOLINONES.

Applicant : AMERICAN CYANAMID COMPANY, OF THE TOWN SHIP OF WAYNE, STATE OF NEW JERSEY, UNITED STATES OF AMERICA.

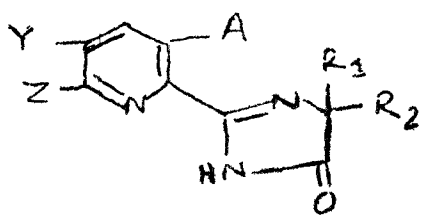
Inventor : 1. PETER JOHN WEPPLO.

Application No. 646/Cal/83 filed May, 24, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

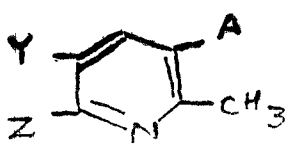
A method for the preparation of a compound of the formula (14) shown in the accompanying drawings



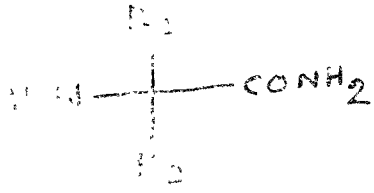
wherein Z is hydrogen; Y is hydrogen, chlorine, fluorine, C_1-C_4 alkyl, C -C_6 alkoxy, phenyl or substituted phenyl; A is hydrogen, $COOH_2$ C_1-C_6 primary or secondary alkyl or $COOR_3$ where R_3 is C_1-C_{12} alkyl and R_1 and R_2 are C_1-C_4 alkyl or when taken together they may represent C -C_6 cyclo-alkyl optionally substituted with methyl and when R_1 and R_2 are not the same, the optical isomers thereof; and when taken together, Y and Z may form a ring in which YZ is

L M Q R_7

-C= C- C= C-, where L, M, Q and R_7 each represent members selected from the group consisting of hydrogen, chlorine, fluorine, methyl, methoxy or phenyl; A, R_1, R_2 and R are as described above and when R_1 and R_2 are not the same the optical isomers thereof, comprising as a part of the synthesis quence reacting from 1 to 20 equivalents of a compound of the formula shown in the accompanying drawings (15)



wherein A, X and Z are as described above; with at least 3 equivalents of sulfur and about 1 equivalent of an aminocarboxamide of the formula shown in the accompanying drawings 3.



wherein R_1 and R_2 are as described above; at an elevated temperature and when desired when A is hydrogen, C_1-C_6 primary or secondary alkyl or -$COOR_3$ converting to COOH.

Compl. specn. 18 pages. Drgs. 2 sheets.

CLASS : 61A; 98I. 155353.

Int. Cl. : F26b 13/00, 3/28.

"A BUILT-IN SOLAR FABRIC DRIER ASSEMBLY".

Applicants : AUSTIN SAMSON MYLES (NATIONALITY —INDIAN), DEPUTY MANAGER, DANFOSS (INDIA) LIMITED, D-14/1, OKHLA INDUSTRIAL AREA, PHASE II, NEW DELHI-110 020.

AND

SHREE RAM KE DAS (NATIONALITY-INDIAN), BUSINESSMAN, OK 3/38, SOOT TOOLA, VARANASI.

Inventors : AUSTIN SAMSON MYLES AND SHREE RAM KE DAS.

Application for Patent No. 633/Del/80 filed on 29th August, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

2 Claims

A built-in Solar Fabric Drier System comprising in combination :

(a) A heating chamber comprising of transparent cover and flat plate collector as base, (b) a drying chamber consisting of the bottom of the flat plate collector and the insulated base of the unit, (c) a blower, manual or automatic for blowing air into the chamber, (d) an air seal along the opposite side of (c) which prevents hot air from escaping, (e) an arrangement for fabric to be fed along the side below the blower, and removed along the side in contact with the air seal

Comrl. specn. 5 pages. Drgs. 4 sheets.

CLASS : 199, 146A. 155354.

Int. Cl. : G01f 23/00.

"AN AUTOMATIC MONITOR FOR OVERHEAD WATER STORAGE TANKS".

Applicant : HARBHAJAN SINGH JABBAL, AN INDIAN CITIZEN OF 2E/14 DOUBLE STOREY CIRCULAR ROAD, N.I.T., FARIDABAD-121001, HARYANA, INDIA.

Inventor : HARBHAJAN SINGH JABBAL.

Application for patent No. 753/Del/80 filed on 16th October, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

13 Claims

An automatic monitor for an overhead water storage tank adapted to connect a power source to a drive motor of pump for pumping water from an under-ground water storage tank to said overhead tank, comprising a current sensor for sensing the current flowing to the motor of the said pump, said current sensor being connected to a primary logic circuit through a processing circuit, and a relay connected to said logic circuit, the pump motor being connected to the power source when the coil of said relay is energised.

Compl. specn. 21 pages. Drgs. 2 sheets.

CLASS : 143D4, 203. 155355.

Int. Cl. : D21f 7/00, B65h 21/00.

"DEVIATOR DEVICE FOR WEBS, PARTICULARLY PAPER WEBS".

Applicant : G. D. SOCIETA' PER AZIONI, OF VIA POMPONIA 10, 40100 BOLOGNA, ITALY, AN ITALIAN COMPANY.

Inventor : ENZO SERAGNOLI.

Application for Patent No. 60/Del/81 filed on 2nd February, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Claims

A deviator device for webs, particularly paper webs and the like, comprising an inlet guide member and an outlet guide member for said web; a deviator drum mounted to rotate about a first axis and disposed between the inlet guide member and the outlet guide member, said web winding in contact with part of a peripheral surface of said drum when in use; and adjustable support means for the drum for varying the position of said first axis about a second axis which is perpendicular to the first axis and tangential both to said drum surface and to said inlet guide member.

Compl. specn 10 pages Drgs. 2 sheets.

CLASS : 108B1. 155356.

Int. Cl. : B02c 4/00.

"AN IMPROVED DRY AUTOGENEOUS MILL".

Applicant : THE HANNA MINING COMPANY, A CORPORATION OF DELAWARE UNITED STATES OF AMERICA HAVING A PLACE OF BUSINESS AT 100 ERIEVIEW PLAZA CLEVELAND, OHIO 44114, UNITED STATES OF AMERICA.

Inventors : COLIN DOUGLAS JARDINE, SOOI CHONG, RODNEY HERBERT COLES, STEPHEN HEBB.

Application for Patent No. 64/DEL/81 filed on 4th February, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

19 Claims

An improved dry autogeneous mill including a shell and opposite ends with central feed and discharge openings therein through which material is fed into the mill and subsequently discharged therefrom, said shell and ends being lined, wherein the improvement comprises end liner means covering such mill ends, rib means extending from the end liner means in a generally radial direction within said mill for obtaining a predetermined lifting action of the material within the mill during the grinding operation, and said end liner means also including head portions at the radial inner end of said end liner means adjacent said central discharge and feed openings which circular axially beyond said radially extending rib means to protect said rib means against undue wear and restrict the axial spacing between the ends of said mill through which the material falls as the material is carried upwardly during rotation of the mill.

Compl. specn. 18 pages. Drgs. 2 sheets.

CLASS : 119F3. 155357.

Int. Cl. : D03d 43/00, 41/00.

"DEVICE FOR THE INSERTION OF A WEFT THREAD INTO THE SHED OF A WEAVING LOOM".

Applicant : SOCIETE ALSACIENNE DE CONSTRUCTIONS MECANIQUES DE MULHOUSE, OF 1 RUE DE LA FONDERIE, 68054 MULHOUSE, FRANCE; A FRENCH COMPANY.

Inventor : ALBERT MOESSINGER.

Application for Patent No. 65/DEL/81 filed on 4th February, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

9 Claims

A device for the insertion of a weft thread in the form of a loop into a shed of a weaving loom, the device comprising :

Storage means spaced from such a shed for storing weft thread to be inserted;

measuring means for measuring a predetermined length of weft thread corresponding to the length of thread to be inserted into such a shed; casting means for casting such a measured length of weft thread in the form of a loop into such a shed; and

thread extension means positioned between the casting means and an entrance to such a shed for extending a portion of such aloop of thread between a held strand and a cast strand of the thread while the thread is being cast.

Compl. specn. 20 pages. Drgs. 4 sheets.

CLASS : 35C. 155358.

Int. Cl. : C04b 7/48.

"PROCESS AND DEVICE FOR MANUFACTURING CEMENT CLINKER".

Applicant : CREUSOT-LOIRE ENTREPRISES, OF 39 QUAI GALLIENI 92150 SURESNES, FRANCE; A FRENCH COMPANY; AND LAFARGE COPPEE, OF 28 RUE EMILE MENIER, 75782 PARIS CEDEX 16, FRANCE; A FRENCH COMPANY.

Inventor : GERALD NAMY.

Application for Patent No. 66/Del/81 filed on 4th February, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

17 Claims

Process for manufacturing cement clinker by firing raw material previously prepared in the form of pellets in an apparatus comprising from top to bottom, a zone for drying, preheating and pre-calcination a clinkering zone, and a cooling zone through which said pellets pass successively in a downward direction, in counter-current to a combustive fluid introduced into the bottom of said cooling zone and passing upwardly carrying with it the gases formed in said apparatus said preheating and cooling zones each operating as a tunnel kiln, said clinkering zone comprising a restricted conduit having a vertical axis and connected upwardly with said pre-heating zone by at least one pellet distribution hopper, said restricted conduit opening at the bottom into the upper part of said cooling zone and channeling said combustive fluid flowing in an upward direction so that said pellets from a fluidized bed into which a fuel is injected, said process comprising the steps of (a) supplying said apparatus with pellets having a size in excess of 6 mm and comprising a quantity of carbon so determined that its combustion produced within each pellet just the amount of heat required to effect decarbonation of said raw material, taking account of the amount of heat introduced by the gases flowing in said pre-heating zone, the latter comprising at least a portion of the gases leaving said clinkering zone, and being introduced at an adjustable rate through said at least one hopper below said preheating zone;

(b) adjusting the flow of said gases and of said raw materials as a function of one another during the operation, so that decarbonation due to combustion of the carbon is achieved at the base of said pre-heating zone, and said pellets are then heated by contact with hot gases while passing downwardly through said at least one hopper, whereby they reach a temperature close to the clinkering temperature as they enter said clinkering zone; and

(c) introducing into said clinkering zone an amount of fuel sufficient to bring about and maintain the clinkering reaction.

Compl. specn. 36 pages Drg. 1 sheet.

CLASS : 139A. 155359.

Int. Cl. : C01b 31/00.

"A PROCESS FOR ACTIVATING PARTICULATE CARBON IN A ROTARY KILN BY TREATMENT WITH FLUIDS".

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : POKKUNURI SATYANARAYANA MURTI, RAMACHANDRA NAGESH PARLIKAR, THALUSANI KRISHNA REDDY, GAJULA VENKATA YUGANDHAR, VITHAL GAWALI, SHASHIKANT RENUKADAS RAO BENDE AND BANDARI PRAKASH RAO.

Application for Patent No. 73/Del/81 filed on 11th February, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

4 Claims

A process for activating particulate carbon in rotary kiln having nozzles mounted through which fluids or mixture of fluids are injected into the kiln described and claimed in our copending application No. 773/Del/79 characterised in that;

(a) the fluids or the mixture of fluids delivered through a set of nozzles as it passes beneath the charge of carbon particulates in the kiln, with the said nozzles rotating along with the kiln;

(b) interrupting the delivery of the fluids or the mixture of fluids through a set of nozzles, wherein during the rotation of the kiln the nozzles move above the charge of the carbon particulates;

(c) preheating or super heating the fluids or mixture of fluids before delivering it to the nozzles with the help of flue gases passing through the kiln;

(d) continuing the alternate admission and interruption of the fluids or mixture of fluids to each set of nozzles at predetermined positions in the movement of the nozzles as they rotate with the kiln.

Compl specn. 9 pages. Drgs 4 sheets.

CLASS : 32E 155360.

Int. Cl. : C08f 3/90.

"A PROCESS FOR THE PREPARATION OF POLYACRYLAMIDE".

Applicant : SHRI RAM INSTITUTE FOR INDUSTRIAL RESEARCH, 19 UNIVERSITY ROAD, DELHI-110007, INDIA, AN INDIAN INSTITUTE.

Inventors : PAWAN KUMAR KAPIL VERSHA SOHAL & DABHOLKAR DATTAPRASAD ACHYUT.

Application for Patent No. 74/Del/81 filed on 12th February, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

11 Claims

A process for the preparation of polyacrylamide having a molecular weight of more than one million which consists in polymerizing an acrylamide solution containing a compatible dispersing agent, a known precipitating agent and a redox catalyst, said precipitating agent being present from 15 to 30% by weight of the total weight of the mixture, said polymerization being carried out at a temperature of between 8 to 16°C.

Compl. specification 20 pages.

CLASS : 35D. 155361.

Int. Cl. : C04b 1/00, 31/00.

"COMPOSITION SUITABLE FOR PREPARING CELLULAR PLASTER".

Applicant : SOCIETE CHIMIQUE DES CHARBONNAGES, OF TOUR AURORE—PLACE DES REFLETS CEDEX 5, 92080 PARIS LA DEFENCE 2, FRANCE; A FRENCH COMPANY.

Inventors : ROBERT SINN, MICHEL NIEL.

Application for Patent No. 81/DEL/81 filed on 16th February, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

2 Claims

Composition suitable for manufacturing cellular plaster obtained from phosphogypsum characterized in that it is constituted by calcium carbonate, oxalic acid or fluosilic acid and hydroxymethyl cellulose used in proportions by weight of calcium carbonate/acid/hydroxymethyl cellulose comprised between 100/50/20 and 100/16/0.033.

Complete specification 5 pages.

CLASS : 166D, 131B$_3$, 101B. 155362.

Int. Cl. : E02b 17/00, B63b 35/44.

"A JACK-UP RIG".

Applicant : JAMES G. BROWN & ASSOCIATES, INC., OF 2505 WEST HOLCOMBE, HOUSTON, TEXAS 77025, A TEXAS, U.S.A. CORPORATION.

Inventor : EDWARD DAVID DYSARZ.

Application for Patent No. 86/Del/81 filed on 17th February, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

10 Claims

A jack-up rig for use in supporting and using equipment over a body of water having a surface and a seabed, the rig comprising :

a platform;

leg means connected to said platform for supporting said platform above the surface of the water;

said leg means including elevation means for elevating said platform above the surface of the water and connection means for connecting said elevation means to said platform and at least three legs, each of said legs having—

a lower end and an upper end, said lower and having means for landing said lower end on the seabed, a first portion of variable cross-sectional area extending from said lower end to a point intermediate said lower end and said upper end and a second portion of substantially constant cross-sectional area extending from said intermediate point to said upper end, the cross-sectional area of said first portion being greatest at said lower end and decreasing from said lower end to said intermediate point, the cross- sectional area of said second portion being no greater than the cross- sectional area of said first portion at said intermediate point.

Compl. specn. 24 pages. Drgs. 10 sheets.

CLASS : 9-E. 155363.

Int. Cl. C22c 19/00.

A METHOD OF PRODUCING AN ALLOY IN THE FORM OF WROUGHT PRODUCT.

Applicant : CABOT CORPORATION, OF 125 HIGH STREET, BOSTON, MASSACHUSETTS, U.S.A.

Inventor : 1. AZIZ IBRAHIM ASPHAHANI.

Application No. 581/Cal/81 filed May 30, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A method of producing an alloy in the form of wrought product having hot and cold working properties to permit production of thin sheet, tubing and other commercial forms, and further having an optimum combination of corrosion resistant properties in a variety of corrosive media; characterised in that the alloy consists essentially of, in weight percent, 20 to 24 chromium, 12 to 17 molybdenum, 2 to 4 tungsten, less than 0.5 tantalum less than 0.1 carbon, less than 0.2 silicon, less than 0.5 manganese; 2 to 8 iron, less than 0.7 aluminum plus titanium, less than 0.5 vanadium and the balance nickel plus impurities wherein the ratio of molybdenum to tungsten is within the range 3 : 1 to 5: 1, the steps of formation of the alloy being carried out in a manner known per se.

Compl. specn. 17 pages. Drg. Nil.

CLASS : 40-F; 179-L. 1553[illegible]

Int. Cl. : B 67d 3/00; B 01j 1/00.

A DISPENSER TANK WITH A PLUNGER FOR POWDERED REAGENT.

Applicant : ADVANCE ENGINEERING, INC. 186 RIO CIRCLE, DECATUR, GEORGIA 30030, U.S.A.

Inventors : 1. VICTOR BENATAR, 2. WALTER ROSS WILBURN.

Application No. 911/Cal/81 filed August 13, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims

A dispenser tank for powdered reagent used in metallurgical plant having a receiver chamber at the top on the inlet side interconnected through a valve, the receiver containing a vibratory filter screen inside, the outlet orifice of the dispenser tank for the outlet of the said reagent opening into the carrier gas conduit and the inside of the dispenser being maintained under a predetermined pressure for the the flow of the reagent characterised by that the dispenser tank being provided with a reciprocally morable plunger at the orifice for crumbling the globules of blocking reagent and foreign material at the orifice, the plunger being operated by reciproced operating means and the dispenser tank being further provided with a closure element and a discharge conduit.

Compl. specn. 11 pages. Drgs. 2 sheets.

CLASS : 129-G. 155365.

Int. Cl. : B30b 15/00, 15/34.

MEANS FOR LUBRICATING A TOOL OF A DIRECT OR INDIRECT METAL EXTRUSION PRESS.

Applicant : SMS SCHLOEMANN-SIEMAG AKTIENGESELLSCHAFT, OF 4000 DUSSELDORE 1, WEST GERMANY.

Inventors : 1. ALFRED STEINMERTZ, 2. KLAUS EXNER, 3. DIETER WELTERS.

Application No. 1126/Cal/81 filed October 14, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta

11 Claims

Means for lubricating a tool of a direct or indirect metal-extrusion press for extruding metal sections or tubes having at least one extrusion tool, and extrusion axis, and a press frame for supporting said tool or tools, which means for lubricating at least one said tool comprise a support arm mounted pivotably on said press and having a free end pivotable towards and away from said extrusion axis and a carrier mounted movably on said free end and adapted to carry at least one candle of solid heat-meltable lubricant, whereby in operation an end of said candle is controllably engageable with said extrusion tool by pivoting of the arm and movement of the carrier.

Compl. specn. 19 pages. Drgs. 5 sheets.

CLASS : 147-C. 155366.

Int. Cl. : G11b 23/00

TAPE CASSETTE.

Applicant : VICTOR COMPANY OF JAPAN, LTD., OF NO. 12, 3-CHOME, MORIYA-CHO, KANAGAWA-KU, YOKOHAMA-SHI KANAGAWA-KEN, JAPAN.

Inventor : 1. HIROYUKI UMEDA.

Application No. 1315/Cal/81 filed November 24, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A tape casette to be used on a recording and/or reproducing apparatus having supply reel driving shaft and take-up reel driving means,

said tape cassette comprising

a cassette case: and

a supply side reel and a take-up side reel provided within said cassette case, for winding a tape, said supply side reel having a hub at a center of the bottom thereof, with reel driving shaft of said recording and/or reproducing apparatus when said tape cassette is loaded into said recording and/or reproducing apparatus,

said take-up side reel having flange means with engaging means which is disposed sideways relative to said cassette case and which is to engage said take-up reel driving means when said tape cassette is loaded into said recording and/or reproducing apparatus,

said supply side reel and said take-up side being driven respectively by said supply reel driving shaft and said take-up reel driving means when said tape cassette is loaded into said recording and/or reproducing apparatus

Compl. specn. 40 pages. Drgs. 8 sheets.

CLASS : 60-B. 155367.

Int. Cl. : A44b 1/00; B29d 19/00.

SWIVEL HEAD BUTTON.

Applicant : SCOVILL JAPAN KABUSHIKI KAISHA, OF 22-1, ICHIBANCHO, CHIYODA-KU, TOKYO, JAPAN.

Inventor : 1. SHIGERU KONNO.

Application No 1443/Cal/81 filed November 27, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

1 Claim

A swivel-head button which comprises in combination, (A) a button head consisting of a front piece which formes an ornamental outer surface and a back piece which has a peripheral part joined to the periphery of the front piece and a middle part which projects downwardly from the peripheral part to terminate with a central through hole, at least the portion of the middle part around the through hole being tapered to an inverted truncated conical form, the inner wall of said through hole being tapered contrariwise or expanded obliquely downwardly and outwardly

(B) a said member having a rounded top with a diameter larger than that of said through hole and which top can elastically pass through said hole, and is adapted to be moved off when the button head is pulled by an extraordinary force, and

(C) a backing member for attaching said said member to a germent or the like.

Compl. specn. 10 pages. Drgs. 3 sheets.

CLASS : 119-D & F6. 155368.

Int. Cl. : D03d 47/00, 47/38.

DEVICE FOR STORING FILAMENTARY MATERIAL AND LOOMS COMPRISING THE SAME

Applicant : SULZER-RUTI MACHINERY WORKS LTD., 8630 RUTI, ZURICH, SWITZERLAND.

Inventors : 1. GEORG SENN, 2. WALTER KOCH.

Application : No. 23/Cal/82 filed January 5, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims

A device for storing filamentary material adapted for use on a loom which is fed filling threads drawn from a plurality of supply bobbins and into which the different filling threads are alternately inserted, the alternation of the different filling threads taking place in a constant rhythm and in each case one filling thread from one supply bobbin following one from another supply bobbin, said device having a thread storage and a feed nozzle associated with it, said thread storage having a thread carrier which rotates past the feed nozzle, and temporarily holds the threads fed to it characterized in that the feed nozzle (M, 37) is arranged rigidly fixed in position such that depositing of the thread (S_1, S_2, S_3) on the thread carrier takes place in the form of thread packages (P_1, P_2, P_3) consisting of partially supper-imposed turns.

Compl. specn. 20 pages Drgs. 4 sheets.

CLASS : 50-B. 155369.

Int. Cl. : F25d 17/00, G12b 15/00.

EBULLITION COOLING APPARATUS

Applicant : MITSUBISHI DENKI KABUSHIKI KAISHA, OF NO. 2-3, MARUNOUCHI 2-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventors : 1. MASAO FUJII, 2. KAZUSHIGE NAKAO, 3. HARUO TETSUNO.

Application No. 392/Cal/82 filed April 7, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Calcutta.

9 Claims

An ebullition cooling apparatus using a liquid coolant, a heat generating element immersed in the liquid coolant, a container for accommodating said liquid coolant and heat generating element a first passageway so provided in said heat generating element that the bubbles of said liquid coolant formed by the heat produced from said heat generating element flow upwardly, and a second passageway so provided that said liquid coolant is induced to flow down-

wardly in contact with the inner wall of said container by the force developed by the ascending flow of said bubbles and which is so connected to the bottom of said first passageway that the descending flow of said liquid coolant is directed to the first passageway.

Compl. specn. 22 pages. Drgs. 9 sheets.

CLASS : 134-B. 155370.

Int. Cl. : B60k 19/00.

GEARBOX FOR DRIVE TRANSMISSIONS.

Applicants & Inventors : CLAUDE PETER WINDSOR-SMITH OF 33 MAIN STREET, ASHLEY, NR. MARKET HARBOROUGH, ENGLAND; AND RAYMOND ALFRED TAILBY OF 40 MOAT ROAD, LOUGHBOROUGH, ENGLAND.

Application No. 508/Cal/82 filed May 5, 1982.

Convention dated 5th May, 1981 (8113649) United Kingdom.

Appropriate office for opposition proctedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

23 Claims

A gearbox for drive transmissions comprising :

an input shaft;

an output shaft;

an input shaft gear on the input shaft;

an output shaft gear on the output shaft;

at least two layshafts having corresponding constant mesh layshaft gears;

clutch means for each of said layshafts for selective transmission of drive through the layshaft; and

a housing;

characterised by the following features in combination; said layshaft gears comprise layshaft change speed input gears and layshaft output gears with the layshaft input gear and one layshaft output gear for each layshaft; and the layshaft input gear of each of said layshafts meshes directly with said input shaft gear and the layshaft output gear of each of said layshafts meshes directly with said output shaft gear; and

one layshaft and its corresponding clutch means and layshaft gears being provided for each layshaft-transmitted transmission ratio between the input shaft gear and the output shaft gear; and

said clutch means being located within said housing at one end thereof and at the ends of the layshafts, the clutch means being accessible for servicing purposes by removable or openable cover means of said housing; and

liquid coolant supply means to supply liquid coolant to said clutch means and coolant control means being provided to control the supply of liquid coolant to said clutch means whereby in use the flow of coolant to at least one of said clutch means may be greater than the flow to another thereof according to the usage of the clutch means, said one of said clutch means being associated with a layshaft providing a lower transmission ratio (for lower output shaft speed) than said other of said clutch means.

Compl. specn. 27 pages. Drgs. 8 sheets.

CLASS : 172-D_2. 155371.

Int. Cl. : D01h 15/00.

TWO-FOR-ONE TWISTING SPINDLE.

Applicant : PALITEX PROJECT-COMPANY GMBH, OF WEESERWEG 8, 4150 KREFELD 1, WEST GERMANY.

Inventors : 1. SIEGFRIED INGER, 2. HEINZ FINK.

Application No. 535/Cal/82 filed May 13, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims

A two-for-one twisting spindle, in which a compressed-air-actuated device which is adapted to affect or influence the running through of the yarn is disposed in the region of the hollow axle of the spindle, (particularly above the spindle rotor), and has an element which is movable substantially at right angles to the path of the yarn and to which a compressed-airpassage, extending through a stationary part of the spindle, leads.

Compl. specn. 20 pages. Drgs. 6 sheets.

CLASS : 175-H. 155372.

Int. Cl. : F02f 5/00.

PISTON RING.

Applicant : SEALED POWER CORPORATION, OF 100 TERRACE PLAZA, MUSKEGON, MICHIGAN 49443, UNITED STATES OF AMERICA.

Inventor 1. JEROME JAY BUSH.

Application No. 330/Cal/81 filed March 26, 1981.

Convention dated 4th December, 1980 (65075/80) Australia.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A piston ring comprising a parted annular metal body having generally axially directed said walls for seating in a ring groove and having an outer peripheral surface, a groove extending entirely around said outer peripheral surface and defined in part by axially spaced lands disposed on said surface, a band of wear-resistant material in said groove for sealing engagement with a cylinder wall, said lands being respectively adjacent opposing axial edges of said band, and an overlapping joint construction at the parted ends of the ring comprising opposed planar surfaces extending substantially diagonally of the ring body and inclined at an acute angle relative to the plane of said ring, said surfaces terminating at said outer peripheral surface within one of said lands.

Compl. specn. 13 pages. Drgs. 2 sheets.

CLASS : 86-B. 155373.

Int. Cl. : A47c 1/00.

RECLINABLE CHAIR.

Applicant : LA-Z-BOY CHAIR COMPANY, OF 1284 N. TELEGRAPH ROAD, MONROE, MICHIGAN, 48161, UNITED STATES OF AMERICA.

Inventors : 1. WILLIAM PACITTI, 2. HAROLD PAUL RUBLE.

Application No. 575/Cal/81 filed May 29, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

17 Claims

A reclining chair comprising a chair frame having opposite side members including upwardly extending side portions at the rear of the chair frame, a seat frame located between said side members and below said upwardly extending side portions, a pair of rear swing links extending upwardly a substantial distanct respectively above opposite sides of the rear of the seat frame, means pivotally connecting top parts of said rear swing links to said side portions of the chair frame, means pivotally connecting lower parts of said rear swing links to opposite sides of the rear of the seat frame whereby the rear of said seat frame is suspended by said rear swing links on said chair frame for pivotal movement about a rear horizontal axis located a substantial distance above the seat frame, a pair of front swing links

extending downwardly a substantial distance respectively below opposite sides of the front of the seat frame, means connecting to parts of the front swing links to the seat frame, pivot means pivotally connecting lower parts of said front swing links to said opposite side members of the chair frame for pivoting about a front horizontal axis located below said seat frame, support means for supporting the chair on a floor, lower parts of said chair frame side members being pivoted on said support means for pivoting of said chair frame about a bottom horizontal axis located below and between said rear and front horizontal axes, a leg rest supported on said chair frame for movement between a retracted position and an extended position, handle operated means for moving said leg rest between said retracted and extended positions, a back frame located between said chair frame upwardly extending side portions, means supporting opposite sides of said back frame on top parts of said rear swing links for movement with said swing links about said rear horizontal axis whereby said back frame provides for reclining by pivoting about said rear horizontal axis when back pressure of a chair occupant is applied to it at points above said rear horizontal axis, such back pressure also causing forward and upward movement of said seat frame on said rear and front swing links, chair frame tilt linkage means connected to said front swing links for tilting the chair frame rear wardly about said bottom horizontal axis upon extension of the leg rest, said tilt linkage means being arranged to transmit leg rest extension force into upward force on said front swing links to raise said front horizontal axis and pivot means and thereby tilt the chair frame rearwardly on its pivot to the support means.

Compl. specn. 30 pages. Drgs. 3 sheets.

CLASS : 32-A_1 155374

Int. Cl. : C 07 c 113/04.

PROCESS FOR PREPARING WATER-SOLUBLE DISAZO COMPOUNDS.

Applicant : HOECHST AKTIENGESELLSCHAFT OF D-6230 FRANKFURT AM MAIN 80, FEDERAL REPUBLIC OF GERMANY.

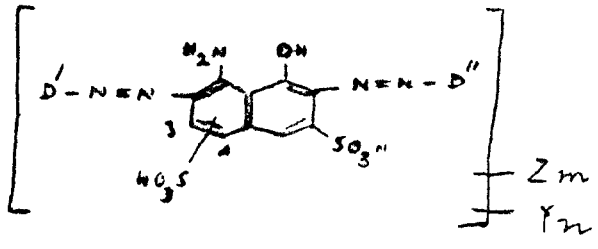
Inventors : 1. FRITZ MEININGER, 2. ERNST HOYER, 3. URSULA OTTEN, 4. RUDOLF FASS, 5. ANNA GERTRUD RUDOLPH NEE OTTEN.

Application No. 979/Cal/81 filed August 31, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A process for preparing a water-soluble disazo compound of the general formula (I) of the accompanying drawings,



or a slat thereof, the formula (1) being defined as follows :

D' is a phenyl radical or a naphthyl radical, which are substituted by a group of the formula moiety Y or the formula moiety Z, defined below, and can be additionally substituted by one or two substituents from the group sulfo, chlorine, bromine, lower alkyl and lower alkoxy;

D'' is a phenyl radical or a naphthyl radical, which are substituted by a group of the formula moiety Y or the formula moiety Z, defined below, and can be additionally substituted by one or two substituents from the group comprising sulfo, chlorine bromine, lower alky, and oower alkoxy;

D' and D'' can be identical with one another or different from one another;

one sulfo group in the disulfo-lamino-8-hydroxynaphthyl-lene radical is in the 3-or 4-position of this naphthalene radical;

Z is a group of the formula (2a), (2b), (2c), (2d), (2e) or (2f)

in which R is an alkyl group having 1 to 4 atoms, X is a chlorine atom, the acetoxy group, the thiosulfato group, the phosphato group or the sulfato group;

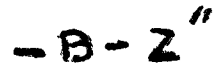
Y is a radical of the formula (3) in which :

R^1 is a hydrogen atom or an alkyl group having 1 to 4 C atoms;

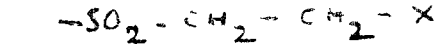
R^2 is a hydrogen atom or an alkyl group having 1 to 4 C atoms, and R^1 and R^2 can be identical to one another or different from one another;

V is a chlorine or bromine atom;

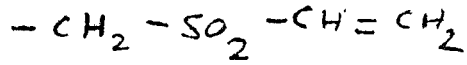
A, is a hydrogen atom or an alkyl group having 1 to 6 C atoms, which can be substituted, or is a phenyl radical, which can be substituted, or is a phenyl radical, which can be substituted by substituents from the group comprising methyl, ethyl, methoxy, ethoxy, chlorine, bromine, carboxyl, sulfo, carbamoyl and suffamoyl, or is a radical of the formula (4)



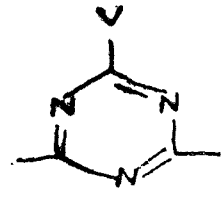
in which : B is a phenylene radical or a naphthylene radical, which can be substituted by one or two substituents, chosen from the set comprising one sulfo group, one chlorine atom, one or two methyl groups or ethyl groups and one or two methoxy groups or ethoxy groups, and Z'' is defined as Z mentioned above and Z and Z'' can be identical to or different from one another; m is the number zero or 1 and n is the number 1 or 2, and the sum (m+n) is equal to 2 and the compound of the formula (1) must necessarily contain at least two of the radicals selected from the radicals of the formulae (2a) to (2f), defined above, and the following formula (5)



(2a)

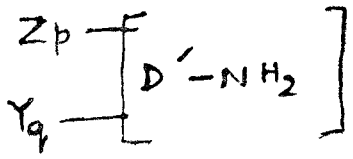


(2f)

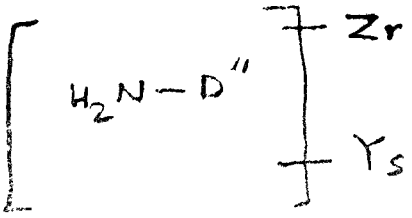


where V has the above mentioned meaning in which process equimolar amounts of 1-amino-naphthol-3, 6-disulfonic acid or 1-amino-8-naphthol-4, 6-disulfonic acid are reacted preferably at a pH value of between 0.5 and 4.5 and temperature of between 0 and 25°C

with a diazonium compound of an amine of the general formula (6)



in which D', Z and Y have the meanings as given above and p and q each represent the number zero or 1, and, subsequently, the monoazo compound formed is reacted preferably at a pH of between 4.5 and 8.0 and temperature of between 0 and 30°C with a diazonium compound of an amine of the general formula (7)



in which D'', and Y have the meanings as given above and r and s each represent the number zero or 1, the amines of the general formulae (6) and (7) being chosen so that the sum of (p+q) is equal to 1, the sum of (r+s) is equal to 1, the sum of (p+r) is equal to zero or 1, the sum of (q+s) is equal to 1 or 2, and the diazo components of the general formulae (6) and (7) can be identical or different from one another.

Compl. specn. 60 pages. **Drg. 16 sheets.**

CLASS : 32-F_2b; 55-E_2, 4; 60—X_{2a}. 155375

Int. Cl. : A 61 k 21/00; C 07 d 99/24.

PROCESS FOR PREPARING NOVEL CEPHALOSPORINS.

Applicant : TOYAMA CHEMICAL CO, LTD., OF 2-5, 3-CHOME, NISHISHINJUKU, SHINJUKU-KU, TOKYO 160, JAPAN.

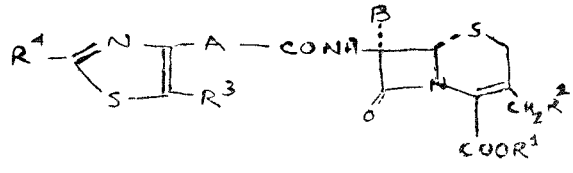
Inventors : 1. HIROSHI SADAKI, 2. HIROKAZU NARITA, 3. HIROYUKI IMAIZUMI, 4. YOSHINORI KONSISHI, 5. TAKIHIRO INABA, 6. TATSUO HIRAKAWA, 7. HIDEO TAKI, 8. MASARI TAI, 9. YASUO WATANABE, 10. ISAMU SAIKAWA.

Application No 1045/Cal/81 filed September 19, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

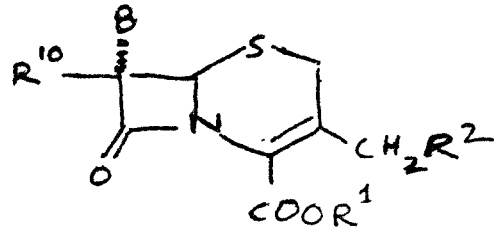
18 Claims

A process for producing a cephalosporin compounds represented by the following formula (I) of the accompanying drawings.

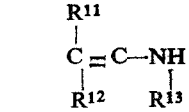


or a salt thereof wherein R^1 represents a hydrogen atom or a carboxyl-protecting group; R^2 represents a substituted or unsubstituted aryl, cylamino, aromatic heterocyclic, triazolyl or tetrazolyl group, said aromatic heterocyclic group being attached to the exomethylene group at the 3-position of the cephem ring through a carbon-carbon bond, and said triazolyl or tetrazolyl group being attached to the exomethylene group at the 3 position of the cephem ring through a carbon-nitrogen bond; R^3 represents a hydrogen or halogen atom; R^4 represents a hydrogen atom or an amino group which may optionally be protected or substituted; a represents a group of the formula, $-CH_2-$, or a group of the formula,

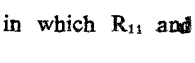
in which R^5 represents a hydrogen atom or an alkyl group and the bond means that the compound may be a syn isomer or an anti isomer or a mixture thereof; and B represents a hydrogen atom or a lower alkoxy group, which comprises reacting a compound of the formula (II),



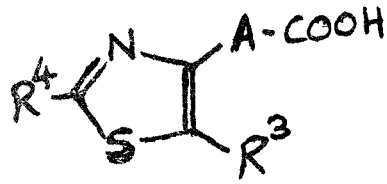
or a salt thereof : wherein R^{10} represents an amino group or a group of the formula



in which R^{11}, R^{12} and R^{13} which may be identical or different, represent hydrogen atoms or organic residues not participating in the reaction, or a group of the formula



in which R_{11} and R^{13}, which may be identical or different, represent hydrogen atom, or organic residues not participating in the reaction, and R^2, R^3 and B have the same meanings as defined above, with a compound represented by the formula (III)



wherein R^3, R^4 and A have the same meanings as defined above or with a reactive derivative in the carboxyl group of said compound as herein described, if desired in the presence of a known condensing agent, the salt being produced if desired in a conventional manner.

Comp. specn. 115 pages. Drg. 41 sheets.

CLASS : 55E , F **155376**

Int. Cl. : C12d 13/00.

METHOD FOR THE PREPARATION OF CLONED HYBRID CELLS OF ENHANCED TITRE OF ANTIBODIES ACTIVE AGAINST HUMAN CHORIONIC GONADOTROPIN AND OTHER REPRODUCTIVE HORMONES.

Applicant : GURSARAN PARSHAD TALWAR, AN INDIAN CITIZEN, OF CI/8, ANSARI NAGAR, NEW DELHI-110029, INDIA.

Inventor : GURSARAN PARSHAD TALWAR.

Application for Patent No. 35/Del/81 filed on 22nd January, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Claims

A method for the preparation of cloned hybrid cells having enhanced titre of antibodies active against human chorionic gonadotropin and other reproductive hormones which comprises conjucting an antibody-forming cell from the spleen or lymph nodes of an immunised mouse with a myeloma cell such as described in the foregoing Example III and treating the mixture under conditions of the kind such as described in figure 1 of the accompanying drawings to obtain a hybrid, sub-cloning the hybrid thus obtained in a manner such as herein described to obtain cells of common progeny, rearing said sub-cloned cells of common progeny in a tissue culture medium to further propagate said cells and recovering in any conventional manner the supernatent of said culture medium or the ascities fluid resulting, which supernatent fluid contains substantially pure antibodies

Compl. specn 17 pages Drg 2 sheets.

CLASS : 62 A_{1A} 103 & 145 E_2 155377

Int. Cl : C23f 11/00, D06 1 3/00

PROCESS FOR BLEACHING OF CELLULOSE MATERIALS

Applicant INTEROX OF 33 RUE DU PRINCE ALBERT, B-1050 BRUSSELS, BELGIUM, A BELGIAN COMPANY

Inventors LUCIEN CLERPOIS & LUCIEN PLUMET

Application for Patent No 58/Del/81 filed on 31st January, 1981

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

9 Claims

Process for bleaching of cellulose materials in an equipment made at least in part of titanium or of alloys containing titanium with an aqueous solution containing a peroxy compound such as herein described characterised in that in order to inhibit corrosion of said equipment said solution contains calcium, strontium or barium ions

Compl specn. 17 pages

CLASS : 52A 155378

Int Cl : C 14 b 5/00

METHOD AND APPARATUS FOR PRODUCING BENT BLANKS OR CUTS USED IN THE MANUFACTURE OF GOODS OF LEATHER OR SYNTHETIC MATERIALS

Applicant : IGNACIO ORDAZ SANCHEZ A MEXICAN CITIZEN DOMICILED AT 127 MARIANO OTERO STREET, COJUMATLAN MICHOACAN, MEXICO

Inventor : IGNACIO ORDAZ SANCHEZ

Application for Patent No 83/Del/81 filed on 16th February, 1981

Convention application filed on 19th June, 1980/803543 31/(CANADA)

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005

11 Claims

A method for producing bent blanks or cuts used in the manufacture of goods of leather or synthetic materials such as herein described comprising the steps of putting an adhesive on a blank in a portion thereof to be bent placing the blank over a cut-out in a pattern having a protuberance disposed on the periphery of the cut-out where the blank is to be bent while applying suction through the cut-out to the blank applying pressure on the bent areas by means of a roller presser a pneumatic press and withdrawing the blank

Compl specn 11 pages Drg 3 sheets

CLASS 6B., 61E 155379

Int Cl F 25 b 43/00 B 01 d 53/26

AIR DRIER UNIT FOR THE DEHUMIDIFICATION OF HOT COMPRESSED AIR OR GAS.

Applicant KRISHAN GOPAL KHOSLA OF 11 PRITHVI RAJ ROAD, NEW DELHI, INDIA, AN INDIAN CITIZEN

Inventor : KRISHAN GOPAL KHOSLA

Application for Patent No 87/Del/81 filed on 17th February, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

9 Claims

An air drier unit for the dehumidification of hot compressed air or gas comprising :

a pair of vessels filled or substantially filled with a desiccant through which said air is adapted to be passed alternately in opposite cycles so that spent desiccant is regenerated in one vessel while dehumidification of said air is effected in the other and vice versa;

inflow means connected to each vessel for the introduction into one or other of said vessels of a stream of said hot moisture-laden compressed air;

first timer actuated control valve means provided with said inflow means for directing said hot compressed air alternately at any given time to the vessel regenerating desiccant;

cooling means located intermediate said pair of vessels through which means air issuing from the vessel regenerating desiccant is led prior to being passed to the dehumidifying vessel,

outflow means connected to each vessel for the exit of demoisturised air which has been dried by passage through the desiccant in both vessels;

second timer-actuated control valve means provided with each outflow means for permitting exit of demoisturised air alternately from one or other of said vessels;

timer actuated by-pass means for delivering a portion of the dry cooler air issuing from the outflow means of the dehumidifying vessel to the vessel regenerating desiccant; and

pre-set timing means connected to said first and second control valve means and to said by-pass means whereby in response to respective predetermined signals from said timing means said first and second valve means are actuated to cause said stream of hot moisture-laden compressed air being introduced through said inflow means to one vessel to be switched to the other and the exit of demoisturised air from the outflow means of one vessel to be switched to the other and said by-pass means is actuated for delivery of said portion of dry cooler air from the dehumidifying vessel to the vessel regenerating desiccant

Compl specn 16 pages Drg 1 sheet

CLASS : 55A, 32 E 155380

Int Cl : A 61 l 1300.

PROCESS OF PREPARING HOMOGENEOUS RESIN POLYIODIDE DISINFECTANTS

Applicant KANSAS STATE UNIVERSITY RESEARCH FOUNDATION OF SEATON HALL MANHATTAN KANSAS 66506 UNITED STATES OF AMERICA INCORPORATED UNDER THE LAWS OF THE STATE OF KANSAS UNITED STATES OF AMERICA

Inventor : JACK LEEPER LAMBERT & LOUIS R. FINA.

Application for Patent No. 95/Del/81 filed on 19th February, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

9 Claims

The process of preparing a homogeneous resin polyiodide disinfectant, comprising :

(a) converting in a reactor vessel strong base anion exchange resin beads to the iodide(I) form, the equivalent exchange capacity of the combining sites of the resin being known;

(b) introducing into a dissolver vessel an amount of crystalline iodine for reaction with the I of the resin beads to produce a polyiodide disinfectant, said dissolver vessel being in a fluid circuit with said reactor vessel;

(c) circulating water in a recycling stream arranged to contact sequentially said iodine in said dissolver vessel and said resin beads in said reactor vessel, said circulating water gradually dissolving said iodine and carrying it as I_2 in a substantially saturated solution to said resing beads for absorption thereby, said water being free of halide ions; and

(d) continuing said circulation until substantially all of said amount of crystalline iodine has been dissolved by said water and until substantially all of said I_2 has been absorbed by said resin beads.

Compl. specn. 18 pages. Drg. 2 sheets.

CLASS : 69 G 155381

Int. Cl. : H 01 h 5/00, H02b 11/00.

PLUNGER HOLDING MECHANISM FOR SOLENOIDS".

Applicant : BHARAT HEAVY ELECTRICALS LTD., 18-20, KASTURBA GANDHI MARG, NEW DELHI-110001, INDIA AN INDIAN COMPANY.

Inventors : RAJENDER KUMAR GUPTA & RANJIT MATHEW.

Application for Patent No. 97/Del/81 filed on 20th February, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

2 Claims

A plunger holding mechanism for solenoids of solenoid operated mechanism used for operating circuit breakers, switch gear, control gear and the like comprising a roller lever case assembly and a ball housing assembly, said roller lever case assembly being mounted on a plunger of the said solenoid operated mechanism, said ball housing assembly being mounted on a coil case of the solenoid characterised in that there is provided an assembly of rollers each fitted to an end of a lever which is pivoted at its other end by a pin in said roller lever case assembly, a torsion spring provided around the said pin for forcing the said lever to rest on the roller lever case assembly, an assembly of balls provided in said ball assembly, a spring adjustable by a compression screw provided for pressing upon each said ball, such that when said assembly of rollers and said assembly of balls are in alignment the said assembly of rollers are not allowed to pass unless the current in the coil of the solenoid reaches 80-100% of its rated strength to push apart the said assembly of balls against the force of the said spring.

Compl. specn. 13 pages. Drg. 4 sheets.

5—417GI/84

CLASS : 98 I 155382

Int. Cl. : F 24 j 3/02.

A SOLAR WATER HEATER HAVING A STORAGE TANK.

Applicant : BHARAT HEAVY ELECTRICALS LIMITED, 18-20, KASTURBA GANDHI MARG, NEW DELHI-110001, INDIA, AN INDIAN COMPANY.

Inventor : SURESH CHANDRA.

Application for Patent No. 113/Del/81 filed on 27th February, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

7 Claims

A solar water heater comprising a single or a plurality of solar heat collectors, the outlet of the solar heat collector or collectors being connected to a water storage tank directly or through an expansion tank characterised in that the pipe line from the lowest point in the water flow pipe system is disposed horizontally or rising in the direction of the flow of water to the expansion tank or storage tank and in that the pipe line from the outlet of the expansion tank or the storage tank is disposed horizontally or inclined downwardly in the direction of flow of water to the said lowest point.

Compl. specn. 7 pages. Drg. 1 sheet.

CLASS : 6 B_2 155383

Int. Cl. : B 01 d 53/26.

PROCESS AND APPARATUS FOR THE PRE-TREATMENT OF MOISTURE-CONTAINING, HIGH TEMPERATURE COMPRESSED AIR.

Applicant : KRISHAN GOPAL KHOSLA, OF 11 PRITHVI RAJ ROAD, NEW DELHI, INDIA, AN INDIAN CITIZEN.

Inventor : KRISHAN GOPAL KHOSLA.

Application for Patent No. 118/Del/81 filed on 27th February, 1981.

Complete Specification left on 25th May, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

16 Claims

A process for the pre-treatment of moisture-containing high temperature compressed air in order to reduce the water vapour content thereof to a practicable minimum prior to feeding the air to an air drier, which comprises passing said moisture-containing high temperature compressed air to a first treatment zone in counter-current relation to a cooling stream of air, collecting the air issuing from said first treatment zone and which has had its temperature reduced to approximately half its initial value, passing the cooled air to a second treatment zone in countercurrent relation to a stream of water whereby the temperature of the air is cooled further to ambient temperature, recycling said air to the first treatment zone where it is employed as the cooling stream in countercurrent relation to further incoming high temperature compressed air whereby the temperature of the air increases to approximately 70°C while its moisture content is further reduced, collecting the air issuing from the first treatment zone and passing it to a third treatment zone in countercurrent relation to a stream of water to reduce the temperature of the now substantially dry air to ambient temperature at which stage it is suitable for feeding to an air drier unit.

Provisional specification 5 pages.

Compl. specn. 13 pages. Drg. 1 sheet.

CLASS : $32F_2(b)$ 155384

Int. Cl. : C 07 d 99/00, 99/54.

A PHOTOLYTICALLY-CATALYZED PROCESS OF REARRANGING A 2-DIAZO-1-OXOCEPH-3-EM-4-CARBOXYLATE TO A CARBAPEN-2-EM-3-CARBOXYLATE.

Applicant : PFIZER INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 235 EAST 42ND STREET, NEW YORK, STATE OF NEW YORK, UNITED STATES OF AMERICA.

Inventor : ROBERT LOUIS ROSATI.

Application for Patent No. 130/Del/81 filed on 9th March, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

11 Claims

A photolytically-catalyzed process of rearranging a 2-diazo- -oxoceph-3-em-4-carboxylate to a carbapen-2-em-3-carboxylate in a reaction-inert organic solvent of the kind known perse in a temperature rang e of - 100°C to 35°C.

Compl. specn. 155 pages. Drg. 6 sheets.

CLASS : 1 E 155385

Int. Cl. : C 131 1/02.

PROCESS FOR RECOVERING STARCH SLURRIES FROM STARCH BEARING MATERIALS.

Applicant : CPC INTERNATIONAL INC., A CORPORATION OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF INTERNATIONAL PLAZA, ENGLEWOOD CLIFFS, NEW JERSEY 07632, UNITED STATES OF AMERICA.

Inventor : AMELIO CICUTTINI.

Application for Patent No. 132/Del/81 filed on 10th March, 1981.

Convention date 26th March, 1980/8010226 (G.B.);
20th January, 1981/8101643 (G.B.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

13 Claims

A process for recovering a starch slurry from a starch-bearing material comprising the steps of :—

(i) forming an aqueous slurry of the comminuted starch bearing material,

(ii) separating in any known manner a starch-rich fraction from the greatest part of the remaining components of the slurry, and

(iii) washing the starch rich fraction in at least one stage and recovering a product starch slurry of desired purity, fresh water for the process being introduced at step (iii) and water for step (i) and step (ii) comprising that used in step (iii), characterized in that at least part of the water that is being used in the process but has not yet existed therefrom is separated into first and second fractions of which the first fraction has lower contents of both soluble matter and insoluble matter than the second fraction, and recycling the said first fraction and using it together with the fresh water to increase the purity of the starch in the washing step (iii).

Compl. specn. 24 pages. Drg. 7 sheets.

CLASS 107-C & G. 155386.

Int. Cl F02f 1/00.

"AN ENGINE STRUCTURAL ASSEMBLY FOR AN INTERNAL COMBUSTION ENGINE".

Applicant : CUMMINS ENGINE COMPANY, INC., AT 1000 5TH STREET, COLUMBUS, IDIANA, UNITED STATES OF AMERICA.

Inventors : PHILIP E JONES.

Application No. 1033/Cal/80 filed September 10, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

38 claims

An engine structural assembly for an internal combustion engine having a crankshaft, at least one reciprocating piston connected with the crankshaft and a cylinder cavity for receiving the reciprocating piston, said engine structural assembly comprising liner means for guiding the reciprocating movement of the piston within the cylinder cavity, said liner means including a liner disposed within the cylinder cavity of the engine structural assembly, said liner including stop means intermediate the ends of said liner for retaining said liner in a desired axial position within the cylinder cavity; an integral crankcase and lower cylinder section assembly characterized in that the integral crankcase and lower cylinder section assembly contain that portion of the cylinder cavity which receives the lower portion of said liner extending downwardly from said radial flange toward the crankshaft when said liner is positioned within the engine structural assembly; and further characterized in that the engine assembly further includes integral head and upper cylinder section assembly containing a recess shaped to form that portion of the cylinder cavity which receives the upper portion of said liner extending upwardly from said radial flange away from the engine crankshaft when said liner is positioned within the engine structural assembly, said upper assembly including :

(1) a combustion chamber forming wall integral with said upper assembly extending across the upper end of said liner when said liner is positioned within the engine structural assembly and

(2) coolant cavity forming means for directing cooling fluid through the engine structural assembly along a coolant path shaped to bring the coolant into direct contact with the liner only along that portion of said liner extending above said stop means.

Compl. specn. 30 pages. Drg. 4 sheets).

CLASS 84-C1. 155387.

Int. Cl. C10l 5/02, 9/08.

A PROCESS FOR PRODUCING UPGRADED FUEL OR COAL OF HIGH ENERGY DENSITY FROM LUMPY BROWN COAL."

Applicant : VOEST-ALPINE AKTIENGESELLSCHAFT, OF A-1011 VIENNA, FRIEDRICHSTRASSE 4, AUSTRIA.

Inventors : ALOIS JANUSCH & JAROSLAV FOHL.

Application No. 17/Cal/81 filed January 7, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

18 claims

Process for producing upgraded fuel or coal of high energy density from lumpy brown coal of high water content characterized in that the raw brown coal having a particle sibe of $\geq$ 3mm and preferably $\leq$50mm is in a first process stage partially dewatered by treatment with saturated steam in vertical or horizontal autoclaves and in that subsequently the coal is dried in a second process stage with hot steam having a temperature in the range of 300—500°C.

Comp. specn. 13. Drgs. 3 sheets.

CLASS : 47-C. 155388.

Int. Cl. C10b 39/00.

A PROCESS FOR PREPARING QUENCHED COKE FROM HOT COCK AND FOR SIMULTANEOUSLY PRODUCING WATER GAS BY USING SENSIBLE HEAT OF HOT GAS.

Applicant : DR. C. OTTO & COMP. GmbH., OF CHRISTSTRASSE 9, 4630 BOCHUM, WEST GERMANY.

Inventors : DR. CARL-HEINZ STRUCK & RALF SHUMACHER.

Application No. 162/Cal/81 filed February 12, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 claims

A process for producing quenched coke from hot coke and for simultaneously producing water gas by using sensible heat of the hot coke characterized in that allowing the hot coke having a temperature of around 1000°C to descent in a cooling or reaction chamber; injecting cooler condensate as known in the art (and yielded in the raw gas coolers of the coke over plant) near the centre of the cooling or reaction chamber having a temperature between 400°C to 600°C; injecting clean process water as known in the art into the lower third part of the said cooling or reaction chamber having a temperature between 200°C to 300°C; obtaining the quenched coke from the bottom part of the cooling or reaction chamber at a temperature between 80° to 100°C; and removing the watergas and steam evolved in the reaction chamber from the top end thereof; and if desired degrading in an known manner NH_3 HCN and phenols present in the water gas.

Comp. specn. 10. Drg. 1 sheet.

CLASS 156E & G & H. 155389.

Int. Cl. F04b 19/22.

"PUMP FOR DELIVERY OF LIQUIDS, MAINLY SLURRIES".

Applicant : GANZ-MAVAG MOZDONY, VAGON-ES GEPGYAR, OF 76 KONYVES KALMAN KORUT, BUDAPEST VIII, HUNGARY.

Inventor : SANDOR HORNOK.

Application No. 1094/Cal/81 filed September 30, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 claims

Pump for delivery of liquids, mainly slurries, separated suction spaces or pressure spaces of which are connected with common working space through valves, characterized in that the valves (5, 6) of the separated suction spaces (3,4) or pressure spaces (23, 24) are interlocked with each other through a transmitting device (10).

Comp. specn. 13. Drgs. 4 sheets.

CLASS 56-C. 155390.

Int. Cl. C13f 1/02.

"IMPROVED PROCESS FOR THE CONTINUOUS PREPARATION OF CRYSTALIZED ALPHA MONOHYDRATE DEXTROSE FROM A DEXTROS CONTAINING LIQUOR".

Applicant : CPC INTERNATIONAL INC., AT INTERNATIONAL PLAZA, ENGLEWOOD CLIFFS, NEW JERSEY 07632, U.S.A.

Inventors : LARRY W. EDWARDS.

Application No. 1153/Cal/81 filed October 19, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Calcutta.

3 claims

An improved process for the continuous preparation of crystalized monohydrate dextros from a dextrose containing liquor which comprises: continuously introducing a dextrose-containing feed liquor into a first reaction zone comprised substantially of a lean phase massecuite having a mean residence time from 6 to 30 hours;

continuously agitating said first reaction zone to promote good mixing of the feed liquor with said lean phase massecuite within said first reaction zone to assure a linear crystal growth rate which is surface reaction controlled but low enough to avoid excessive attrition of said lean phase massecuite within said first reaction zone;

continuously crystallizing said feed liquor within said first reaction zone to form additional lean phase massecuite having a crystal phase content between 15% and 45% alpha monohydrate dextrose said first reaction zone operating at a constant temperature between 40° and 50°C; and

continuously withdrawing lean phase massecuite from said first reaction zone; immediately introducing said lean phase massecuite from said first reaction zone into a second reaction zone until said second reaction zone is essentially comprised of said lean phase lean phase massecuite; continuously agitating said second reaction zone with cooling coils as a rate at which excessive crystal attrition is avoided while heat is transferred between the coils and the bulk of the massecuite;

crystallizing said lean phase massequite within said second reaction zone at a crystallization temperature from 35°C to 50°C for a time period of 6 hours to 30 hours to form a rich phase massecuite having a crystal phase content above 60% alphamonohydrate dextrose the temperature of crystallization being lowered from a preselected initial value to a preselected final value during said time period; and

separating alpha-monohydrate dextrose crystals from said rich phase massecuite by removal of mother liquor.

Comp. specn. 22. Drg. 1 sheet.

CLASS : 76-E. 155391.

Int. Cl. F 16 g 3/00.

IMPROVED METHOD OF MANUFACTURING BELT FASTENERS.

Applicant : J. H. FENNER & CO. LIMITED, OF MARFLEET, HULL, NORTH HUMBERSIDE, ENGLAND, HU9 5RA.

Inventor : 1. JOHN BANCROFT.

Application No. 115/Cal/82 filed January 29, 1982.

Convention dated 29th January, 1981 (02655/81) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 claims

A method of manufacturing a belt fastener comprising feeding a strip of material into a press-tool; impacting spaced portions of the strip to reduce the thickness of at least a part of the strip and thereby to increase locally the width of the strip to its finished dimension, trimming a portion of the strip disposed centrally between the spaced portions to reduce the width of the strip; piercing holes in the spaced portions and separating the fastener from the strip prior to bending the fastener into a substantially U-shape.

Compl. specn. 12 pages. Drgs. 2 sheets.

CLASS : 83-B_6; 136-E. 155392.

Int. Cl. B 29 f 1/06.

METHOD OF MAKING A MULTI-LAYER ARTICLE SUCH AS A CONTAINER.

Applicant : AMERICAN CAN COMPANY, OF AMERICAN LANE, GREENWICH, CONNECTICUT 06830, U.S.A.

Inventors : 1. ROBERT J. McHENRY, 2. MARTIN A. RYAN.

Application No. 279/Cal/81 filed March 13, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 claims

A method of making a multi-layer rigid article such as a container comprising the steps of :

(A) injection molding a parison in an injection mold cavity having a core pin, the cavity having an entrance at the bottom of the parison, by :

(1) substantially simultaneously commencing the flow of a first polymer stream to become the inside surface layer of the parison and the flow of a second polymer stream to become the outside surface layer of the parison,

(2) subsequent to the commencement of the flow of the first and second polymer streams, commencing the flow of a third polymer stream between the first and second polymer streams,

(3) continuing the flow of the first, second and third mer streams concurrently, when the cavity is nearly filled,

(4) terminating the flow of the first polymer stream,

(5) subsequently terminating the flow of the third polymer stream and then,

(6) subsequently terminating the flow of the second polymer stream.

(B) transferring the injection molded parison to a blow molding cavity having the configuration of the article.

(C) inflating the parison in the bolw molding cavity to form the article.

Compl. specn. 24 pages. Drgs. 6 sheets.

CLASS : 39-N; 108-C. 155393.

Int. Cl. C 21 b 1/00; C 09 k 3/00.

A METHOD OF MAKING A DESULPHURISATION AGENT FOR A FERROUS MELT.

Applicant : FOSECO INTERNATIONAL LIMITED, OF 285 LONG ACRE, NECHELLS, BIRMINGHAM, ENGLAND, B7 5JR.

Inventors : 1. JOHN KELVIN BATHAM, 2. ALAN GEORGE FOX, 3. EVAN THOMAS RICHARD JONES.

Application No. 493/Cal/81 filed May 11, 1981.

Convention dated 10th May, 1980 (8015566) U. K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 claims

A method of making a desulphurisation agent for a ferrous melt characterized in calcining limestone at its calcining temperature with added inorganic matter of the type herein described and cooling the product obtained to cause blocking of pores in the lime by solidification, the lime content in the final product being from 40% to 90% by weight.

Compl. specn. 17 pages. Drg. 1 sheet.

CLASS : 6-B_3 & 2; 40-I. 155394.

Int. Cl. B 01 d 47/02.

A DETECTING DEVICE FOR DETECTING THE PRESENCE OF POISONOUS OR NOXIOUS COMPONENTS IN AIR.

Applicant : DUPHAR INTERNATIONAL RESEARCH B. V. AT C. J. VAN HOUTEALAAN 36 WEESP, THE NETHERLANDS.

Inventors : 1. BEREND HEIJENGA, 2. HABERTUS EDUARD HILBRINK, 3. HENRI FRITS KLAIJ.

Application No. 598/Cal/81 filed June 3, 1981.

Convention dated 24th February, 1981 (67564-81), Austrilia.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

21 claims

A detecting device for detecting the presence of poisonous or noxious components such as insecticides in the air, comprising a housing (1) provided with air passages (4, 4', 17, 17') in which an air previous carrier (18) containing a first reagent is arranged, through which carrier (18) the air to be tested is to be sucked in order to expose this reagent to the air, which reagent is influenced by the components to be detected, which carrier (18) is to be brought into contact with a second reagent which, together with the first one can bring about a colour reaction depending on whether or not the first reagent has been influenced, said housing (1) being an integral unit whilst in an opetative condition during which said air is being sucked through said carrier and further comprising an air and liquid-tight container (20) having an easily rupturable wall arranged within said housing and near the carrier (18) for the first reagent, and filled with uncontaminated reagent or dissolving liquid, characterized in that the housing (1) is a flat box-shaped closed housing with substantially circular periphery, in that the first reagent carrier (18) is a sheet of filter paper, in that the liquid container (20) is a disc-shaped container made of foil material, in that an inwardly yieldable flat wall portion (15) of the housing (1) is situated in juxtaposition with or so near said container (20) that it (15) can be brought into contact with said container (20) and in that a plurality of piercing pins (5) is provided in such a manner that, when said wall portion (15) is pushed inwardly of said housing, the container wall is ruptured so as to moisten the reagent carrier (18) with the liquid from said container (20).

Compl. specn. 19 pages Drgs. 2 sheets.

CLASS : 108-B,. 155395.

Int. Cl. C 21b 13/02.

METHOD AND APPARATUS FOR THE GASEOUS REDUCTION OF IRON ORE TO SPONGE IRON.

Applicant : HYLSA, S.A., OF APDO POSTAL 996, MONTERREY, N.L. MEXICO.

Inventors : 1. GARLOS DOMINQUEZ-AHEDO, 2. CARLOS GUZMAN-BOFILL.

Application No. 868/Cal/81 filed August 3, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

18 claims

A method for reducing particulate iron ores to sponge iron which comprises passing a hot reducing gas largely composed of carbon monoxide and hydrogen through a body of said ore in a reactor de-watering, by direct contact with cooling water, the effluent gas from said reactor, recycling at least a part of said effluent gas to said reactor to form a reducing gas loop, reforming in a conventional manner, a hydrocarbon containing gas in a conventional catalytic reformer at temperatures ranging from 600° to 900°C to produce make-up reducing gas fed to said loop, and burning an laternate fuel, such as process fuel gas, to produce hot flue gases for heating said gas in said reformer, said method being characterized by the fact that said hot flue gases after passing through said reformer are passed through a heating hamber, having a temperature of 650° to 700°C, in heat exchange relationship with at least a portion of said cooled reactor effluent gases to heat said effluent gases.

Compl. specn. 15 pages. Drg. 1 sheet.

CLASS : 70-C_5. 155396.

Int. Cl. B 01 d 25/12; B 01 k 3/10.

AN IMPROVED FILTER PRESS TYPE ELECTROLYTIC CELL.

Applicant : ASAHI GLASS COMPANY LTD. OF NO. 1-2, MARUNOUCHI 2-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventors : 1. KIMIHIKO SATO, 2. YASUO SAJIMA, 3. MAKOTO NAKAO, 4. TAKESHI MORIMOTO.

Application No. 965/Cal/81 filed August 28, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 claims

An improved filter press type electrolytic cell for electrolyzing an aqueous solution of an alkali metal chloride wherein said aqueous solution of an alkali chloride is fed into the central space of a hollow quadrilateral frame holding an anode therein, defining the anode compartment of said cell; and wherein water or a dilute aqueous solution of an alkali metal hydroxide is fed into the central space of a hollow quardrilateral frame holding a cathode therein, defining the cathode compartment of said cell; said anode compartment and said cathode compartment being separated by a cation exchange membrane, characterized in that :

(a) each hollow quadrilateral frame is provided with an inlet passage to the central space of said frame for the introduction of an electrolyte and an outlet passage from the central space of said frame for removal of an electrolyzed product;

(b) an anode or a cathode which is held in said each frame and electrically connected to a power source or an adjacent counter electrode

(c) a gas and liquid permeable non-electrode porous layer made of inorganic particles such as herein before described is formed on the cation exchange membrane in a thickness thinner than that of the membrane on at least one surface of said membrane wherein said at least one surface of the cation exchange membrane having the porous layer thereon is separated from the anode or cathode facing said porous layer.

Compl. specn. 23 pages. Drg. 1 sheet.

CLASS : 24-D_2. 155397.

Int. Cl. B 61 h 11/00.

A FLUID PRESSURE BRAKE APPARATUS FOR A RAILWAY VEHICLE.

Applicant : AMERICAN STANDARD INC., OF 40 WEST 40TH STREET, NEW YORK, NEW YORK 10018, UNITED STATES OF AMERICA.

Inventor : 1. JAMES EDWARD HART.

Application No. 1113/Cal/81 filed October 3, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

31 claims

Fluid pressure brake apparatus for a railway vehicle operative in response to variation of fluid pressure in a brake pipe of the vehicle comprising :

(a) a brake cylinder device (1) including :

(i) a power cylinder (4);

(ii) a first piston (12) in said power cylinder and cooperating therewith to form first (14) and second (13) chambers on opposite sides thereof;

(iii) a positioning cylinder (3) having a diameter less than the diameter of said power cylinder;

(iv) a second piston (9) in said positioning cylinder and cooperating therewith to form third (10) and fourth (11) chamber on the opposite sides thereof, said first and second piston abutments being interconnected; and

(v) biasing means (18) for urging said first and second pistons in a brake release direction ;

(b) application and release control valve means (27) having a releace position for effecting the charging of said first and second chambers with said brake pipe fluid pressure and the venting of said third chamber, whereby said biasing means is effective to move said first and second pistons to a brake release position;

(c) service valve means operative in response to a reduction of said brake pipe fluid pressure at either a service or emergency rate for effecting actuation of said application and release control valve means to an application position, whereby said charging of said first and second chambers and said venting of said third chamber is terminated and fluid pressure communication is established between said first and third chambers, whereby said first and second pistons are moved from said brake release position to a brake application position;

(d) said application and release control valve means in said application position thereof further establishing fluid pressure communication between said first and second chambers to provide fluid pressure communication therebetween during said movement of said first and second pistons from said brake release position to said brake application position;

(e) transfer valve means (28) operative in response to said fluid pressure in said third chamber exceeding a predetermined value for interrupting said fluid pressure communication between said first and third chambers and concurrently venting fluid pressure from said first chamber, whereby said first and second pistons exert a service braking force corresponding to the fluid pressure differential across each of the respective first and second pistons; and

(f) said transfer valve means being further operative, prior to said fluid pressure in said third chamber exceeding said predetermined value, for establishing fluid pressure communication between said first and second chambers to provide fluid pressure equalization therebetween during such time that fluid pressure communication is established between said first and third chambers following said movement of said first and second pistons from said brake release position to said brake application position.

Compl. specn. 48 pages. Drgs. 2 sheets.

CLASS : 172-D_3. 155398.

Int. Cl. D 01 h 7/08.

PIVOTABLE SPINDLE MOUNTING PARTICULARLY FOR AN APPARATUS FOR SPINNING BOUND YARN.

Applicant : SCHUBERT & SALZER MASCHINENFABRIK AKTIENGESELLSCHAFT, OF FRIEDRICH-EBERT-STRASSE 84, 8070 INGOLSTADT, WEST GERMANY.

Inventor : 1. RAINER STUDTMANN.

Application No. 1115/Cal/81 filed October 12, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 claims

A pivotable spindle mounting, particularly for an apparatus for spinning bound yarn, with a pivot arm which holds the spindle and is mounted on a supporting pin, characterised in that the supporting pin is pivotable in the machine frame, pivotal movement of the spindle taking place as a result of rotary movement of the supporting pin; and, on the occurrence of a countering force, this pivotal movement being convertible into a lifting movement of the spindle.

Compl. specn. 19 pages; Drgs. 2 sheets.

CLASS : 129-G. 155399.

Int. Cl. B 23 b 11/00.

DIAGNOSTIC COMMUNICATIONS SYSTEM FOR COMPUTER CONTROLLED MACHINE TOOLS.

Applicant : KEARNEY & TRECKER CORPORATION, OF 11000 THEODORE TRECKER WAY, WEST ALLIS, WISCONSIN 53214, U.S.A.

Inventor : 1. RICHARD JOHNSTONE.

Application No. 1245/Cal/81 filed November 10, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 claims

An diagnostic communication system for automatically analyzing the operation of a remotely situated computer controlled machine tool and for diagnosing abnormalities disclosed during machine tool operation comprising :

a diagnostic communication computer system programmed to monitor the operation of a remotely situated computer controlled machine tool in response to identifying data from the comuuter controlled machine tool indicative of the machine tool type and programmed to diagnose any machine tools abnormalities in accordance with data transmitted from the computer controlled machine tool indicative of machine tool operating characteristics;

a communication channel between said diagnostic communication computer system and the remotely situated computer controlled machine tool for carrying instructions from the diagnostic communication computer system to the remotely situated computer controlled machine tool to direct machine tool operation and for carrying data from the remotely situated computer controlled machine tool indicative of the machine tool type and indicative of machine tool operating characteristics to said diagnostic communication computer system; and

means coupled between said communication channel and said diagnostic communication system and coupled between said communication channel and the remotely situated computer controlled machine tool for automatically establishing a communications link between said diagnostic communications system and a remotely situated computer controlled machine tool in response to an operator-initiated command entered to the remotely situated computer controlled machine tool.

Compl. specn. 13 pages. Drg. 1 sheet.

CLASS : 172-A, B & F. 155400.

Int. Cl. D 01 h 9/00.

METHOD OF AND APPARATUS FOR AUTOMATICALLY REMOVING YARN REMNANTS FROM A BOBBIN.

Applicant : F. MANNHART AG, OF UEBERLANDSTRASSE 74, DIETIKON, SWITZERLAND.

Inventor : 1. FELIX MANNHART.

Application No. 1264/Cal/81 filed November 16, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 claims

To maintain and prevent the bobbin or the like from deterioration during its use a method for automatically removing yarn remnants from said bobbin or the like and thus enable it to be re-used, comprising the steps of

(a) disposing said bobbin along a longitudinal axis substantially coinciding with its central axis,

(b) locating a cutter at least two strippers about said longitudinal axis,

(c) removing said bobbin along said longitudinal axis relative to said cutter and strippers,

(d) simultaneously moving said cutter and strippers in a radial direction toward said longitudinal axis, and

(e) controlling the radial movement of said cutter and strippers toward said bobbin in response to the axial movement of said bobbin through a template having a contour conforming to the shape of said bobbin, whereby the inward movement of said cutter and strippers in cooperation with the axial movement of said bobbin cause removal of the yarn thereon.

Compl. specn. 22 pages. Drgs. 3 sheets.

OPPOSITION PROCEEDINGS

(1)

An opposition has been entered by Lakhanpal National Limited to the grant of a patent on application No. 153169 made by Union Carbide India Limited.

(2)

An opposition has been entered by Lakhanpal National Limited to the grant of a patent on application No. 153168 made by Union Carbide India Limited.

PATENTS SEALED

145501 151369 151883 151898 151906 151919 151949 152034 152045 152062 152082 152149 152223 152255 152328 152392 152410 152424 152433 152473 152476 152482 152483 152510 152592 152593 152605 152814

AMENDMENT PROCEEDINGS UNDER SECTION 57

(1)

The amendment proposed by S.A. LABAZ N.V. in respect of Patent application No. 151594 as advertised in Part III, Section 2 of the Gazette of India dated the 30th June, 1984 has been allowed.

(2)

The proposed amendments made by London Laboratories Limited in respect of Patent Application No. 151794 as advertised in Part III, Section 2 of the Gazette of India dated the 30th June 1984 has been allowed.

(3)

The amendment proposed by Kureha Kagaku Kaushiki Kaisha in respect of Patent Application No. 149861 as advertised in Part III, Section 2 of the Gazette of India dated the 14th July, 1984 has been allowed.

CORRECTION OF CLERICAL ERRORS

Under Section 78(1) of the Patents Act 1970, certain clerical errors occurring in the Specification in respect of Patent No. 152072 were corrected on 11th December, 1984.

COMMERCIAL WORKING OF PATENTED INVENTION

CHEMICAL LIST NO. II.

The following Patents in the field of Chemical Engineering Industry are not being commercially worked in India as admitted by the Patentees in the Statements filed by them under Section 146(2) of Patents Act, 1970, in respect of calendar year 1983, generally on account of want of requests for licences to work the Patented inventions. Persons who are interested to work the said Patents commercially may contact the Patentees for the grant of a licence for the purpose.

Sl. No.	Patent No.	Date of Patents	Name and Address of the Patentees	Title of the inventions.
1	2	3	4	5
1.	131235	4-5-1971	CENTRAL GLASS CO. LTD. OF 5253, oaza, Ube-shi, Yanaguchi-ken, Japan, Okiube.	Quality synthetic cryolite.
2.	131248	5-5-1971	SANKYO CO. LTD., of 1-6, 3-chome, Nihonbashi, Honcho, Chou-ku. Tokyo, Japan.	Soil fungicides.
3.	131405	18-5-1971	INTERNATIONAL NICKEL LTD. of Thames House, Millbank, London SWIP 4QF.	Treatment of corrosion resistent chromium containing alloys.
4.	131458	22-5-1971	SNAMPROGETTI S.P.A. of 16 corso Venezia, Milan, Italy.	Process for dehydrating ammonia synthesis gases.
5.	131469	24-5-1971	SHELL INTERNATIONAL RESEARCH MAATSCHAPPIJ B.V. of Carel Van, Bylandtlaan, 30, The Hague, The Netherlands.	Process for the isomerization of alkylaromatic hydrocarbons.
6.	131502	26-5-1971	MITSUBISHI JUKOGYO KABUSHIKI KAISHA of 5-1, Marunouchi 2-chome chiyoda-ku, Tokyo, Japan.	Reference sample suitable for use in a method of determining non-destructively a component of a metallic material.
7.	131518	28-5-1971	EISENWERK-GESELLSCHAFT MAXIMILTANSHUTTE, m.b.H. of Sulzbachrosenberg Hutte, West Germany.	Method of convertor for refining pig iron.
8.	131536	29-5-1971	STAMICARBON N.V. OF P.O. BOX 10, Geleen, The Netherlands.	Process and apparatus for recovery of ammonia and carbon dioxide from the tail gas of a wire synthesis.
9.	131552	31-5-1971	FARBWERKE HOECHST AKTIEN-GESELLSCHAFT VORMALS MEISTER LUCIUS & BRUNING OF 45 Bruningstrasse, Frankfurt Main, Federal Republic of Germany.	Process for the manufacture of acyl acetic acid arylamide.
10.	131576	3-6-1971	THE DOW CHEMICAL COMPANY, of Midland, County of Midland, State of Michigan, U.S.A.	Hydration of nitroles to amides using hydrogenous cuprous catalysts.
11.	131782	18-6-1971	UNIVERSAL OIL PRODUCTS of Ten Uop Plaza-Algonquin, Mt. Prospect Roads, Des Plaines, Illinois.	Black oil conversion process-initial operation procedure.
12.	131896	28-6-1971	TEXACO DEVELOPMENT CORPORATION of 135 East 42nd Street, New York, New York-10017, U.S.A.	A partial oxidation process for producing synthesis gas.
13.	131913	29-6-1971	METALLGESELLSCHAFT AG. 16 Frankfurt/Am. Reuterweg 14, West Germany.	Process of producing aluminium fluoride.
14.	131939	30-6-1971	FARBWERKE HOECHST AKTIEN-GESELLSCHAFT VORMALS, MEISTER LUCIUS ; BRUNING. of 45 Bruningstrasse, Frankfurt/Main, Federal Republic of Germany.	Process for preparing water soluble metalliferous disazo dyestuffs.
15.	131968	2-7-1971	FARBWERKE HOECHST AKTIEN GESELLSCHAFT VORMALS MEISTER LUCIUS & BRUNING of 45 Bruningstrasse, Frankfurt Main, Federal Republic of Germany.	Process for manufacturing novel Water soluble monoazo dyestuffs.
16.	132031	8-7-1971	FARBWERKE HOECHST AKTIEN-GESELLSCHAFT VORMALS MEISTER LUCIUS & BRUNING, of 45 Bruningstrasse, Frankfurt/Main, Federal Republic of Germany.	Process for the manufacture of fast dyeings or printings on fibrous materials containing cellulose.

1	2	3	4	5
17.	132048	9-7-1971	UNIVERSAL OIL PRODUCTS INC. of Ten UOP Plaza, Algonquin & Mt. Prospect Roads, Des Plaines, Illinois, U.S.A.	Solid phosphoric acid catalyst and method of manufacture & use thereof.
18.	132263	27-7-1971	OSTERREICHISCHE-AMERIKANISCHE MAGNEIT, A.G. of Badenthein, Garenthia, Austria.	Process of producing a sintered refractory material.
19.	132267	27-7-1971	JOHNSON & JOHNSON of 501 George Street, New Brunswick, New Jersey, U S.A.	Bonded non-woven fabrics method of making the same and synthetic resin binder composition used therein.
20.	132309	20-4-1972	HINDUSTAN LEVER LIMITED of 165/166, Backbay, Reclamation, Bombay-400020.	A process for preparing an instant tea powder.
21.	132355	3-8-1971	FARBWERKE HOECHST AKTIENGESELLSCHAFT, VORMALS MEISTER LUCIUS & BRUNING of 45, Brunings-trasse, Frankfurt/Main, F.R.G.	Process for the preparation of Water Soluble monoazo dyestuffs.
22.	132454	10-8-1971	E.I. DU PONT DE NEMOURS & CO. of Wilmington, Delware, U.S.A.	Emulsion type blasting agent.
23.	132456	10-8-1971	TEXACO DEVELOPMENT CORPORATION of 135, East 42nd Street, New York, New York, 10017, U.S.A.	(A process for the production of carbon monoxide and hydrogen by direct partial oxidation and liquid hydrocarbon.
24.	132545	16-8-1972	INDIAN EXPLOSIVES LTD. OF 34 Chowringhee, Calcutta-700071, Indian Public Limited Co.	Improved method and system for the preparation of thickened slurry explosives.
25.	132605	21-8-1971	COMBUSTION ENGINEERING INC. OF 1000, Prospect Hill Road Windsor, State of Connecticut, U.S.A.	Apparatus for initiating the heat generation phase of an electroslag refining process.
26.	132622	23-8-1971	UNIFORM A.G. of Kirchweg 54, Glarus, Switzerland.	Improvements in or relating to the production of polymeric foam.
27.	132648	24-8-1971	HOECHST AKTIENGESELLSCHAFT of 45, Bruningstrasse, Frankfurt/Main, F.R.G.	Process for the preparation of monoazo pigments.
28.	132685	26-8-1971	INVENTA AG Furschung und Patenryerwertung, Zurich 6, Stampfenbaehstrasse 38, Zurich, Switzerland.	Process for purifying lactams.
29.	132766	3-9-1971	UNIVERSAL OIL PRODUCTS, INC. of Ten Uop Plaza-Algonquin & Mt. Prospect Roads, Des Plaines, Illinois, U.S.A.	Improved hydrocarbon separation process.
30.	132782	4-9-1971	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ. B.V. of Carel Van Bylandtlaan 30, The Hague, The Netherlands.	Process for preparing an improved catalysts for producing oxirane compounds by epoxidizing olefines with hydro peroxide.
31.	132827	8-9-1971	SOLVAY & CIE, of 33, Rue du Prince, Albert, B-1050, Brussels, Belgium.	Process for polymerization of olefins.
32.	132828	8-9-1971	Do.	Do.
33.	132854	9-9-1971	TOYO ENGINEERING CORPORATION of 2-5, 3-chome kasumigaseki, Chiyoda-ku, Tokyo, Japan.	Process for manufacturing gaseous mixtures rich in hydrogen.
34.	132878	13-9-1971	UNION CARBIDE CORPORATION OF 270 Park Avenue, New York, State of New York-10017, U.S.A.	Process for separating normal paraffins from admixture with non-normal hydrocarbons.
35.	132908	14-9-1971	J H. FENNER & CO. LTD. of Marfleet, Hull, HV9 SR England.	A method of bonding a surface of poly vinyl chloride to a surface of Natural rubber or to asurface of a sulphur modified chloropreene elastomer.
36.	132913	15-9-1971	UNIVERSAL OIL PRODUCTS OF 10 UOP Plaza-Algonquin & Mt. Prospect Roads, Des Plaines, Illinois, U.S.A.	Process and apparatus for catalytic cracking of hydrocarbons.

1	2	3	4	5
37.	132929	16-9-1971	SHERRITI GORDON MINES LTD. OF 25King Street, West Toronto, Ontario, Canada.	Method for preparing Nickeliferous laterite ore mixture for reduction roasting.
38.	132930	16-9-1971	FARBWERKE HOECHST A.G. VORMALS MEISTER LUCIUS & BRUNING. OF 45 Bruningstrasse, Frankfurt/Main, F.R.G.	Process for the manufacture of Water soluble fibre-reactive disazo dyestuffs and their metal complex compounds.
39.	132943	17-9-1971	UNIVERSAL OIL PRODUCTS INC. OF TEN UOP PLAZA Algonquin & Mt Prospect Roads, Des Plaines, Illinois, U.S.A.	Process for separating para-xylene from a mixture of C8 hydrocarbons.
40.	133022	23-9-1971	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ, B.V. of Carel Van Bylandtlaan 30, the Hague, The Netherlands.	Apparatus for the decomposition of unconverted organic peroxy compounds present in the Reaction product or effluent obtained by the epoxidation of olefinic compounds.
41.	133051	25-9-1971	L'AIR LIQUIDE SOCIETE ANONYME POUR L'ETUDE ET LIEXPLORTATION DES PROCEDES GEORGE CLAUDE, of 75 Quai D'orsay-75 Paris (7eme), France.	Process for removing sulphur dioxide nitrogen oxide & sulphuric acid vapour impurities from industrial fumes.
42.	133066	1-10-1971	BENILITE CORPORATION OF AMERICAL of 233 Broadway, New York, U.S.A.	Pre-leaching or reduction treatment in the beneficiation of titaniferous iron ores.
43.	133137	6-10-1971	FARBWERKE HOECHST A. G. VORMALS MEISTER LUCIUS, of 45 Bruningstrasse, Frankfurt/Main, F.R.G.	Process for preparing a water soluble monoazo dyestuffs.
44.	133139	6-10-1971	Do.	Process for the manufacture of metal complex monoazo dyestuffs.
45.	133172	7-10-1971	ETAT FRANCAISE, Represente Par le Ministre de la, Defence National of 4 Avenue, de la, porte d'Issy Paris 150, France.	Improved process for the manufacture of phosgene.
46.	133176	18-10-1971	HINDUSTAN LEVER LIMITED OF HINDUSTAN LEVER HOUSE. 165/166 Backbay Reclamation, Bombay-20, India.	Cosmetic totalsun screen composition.
47.	133233	14-10-1971	THE MEAD CORPORATION OF TULBOLT TOWER DAYTON, chio 45402, U.S.A.	Improved reduction oxidation process.
48.	133297	21-10-1971	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. of Carel Van Bylandtlaan 30, The Haque, The Netherlands.	A process for producing metalic silver deposits on the surface of porous refractory catalyst support.
49.	133325	22-10-1971	FARBWERKE HOECHST A.G. VORMALS MEISTER LUCIUS & BRUNING of 45 Bruningstrasse Frankfurt/Main F.R.G	Novel process for the manufacture of benzimidazalone (2).
50.	133356	26-10-1971	PFIZER INC. OF 235, East 42nd Street, New York, State of New York, U.S.A.	Fermentation process for the production of citric acid.
51.	133378	27-10-1971	FARBWERKE HOECHST A.G VORMALS MEISTER LUCIUS & BRUNING OF 45 Bruningstrasse Frankfurt/Main, FEDERAL RIPUBLIC OF GERMANY.	Process for the manufacture of new Water soluble fibre-reactive azo dyestuffs.
52.	133394	28-10-1971	AMCHEM PRODUCTS, INCORPORATED. of Brookside Avenue, Pennsylyania, U.S.A.	Plant growth regulating compositions.
53.	133408	29-10-1971	UNION CARBIDE CORPORATION OF 270 Park Avenue New York, State of New York-10017, U.S.A.	Selective absorption gas separation process.
54.	133483	4-11-1971	Do.	Apparatus for use in electoless Nickel plating or articles and particularly patterns and coreboxes in molding and core forming apparatus.

1	2	3	4	5
55.	133566	10-11-1971	TEXACO DEVELOPMENT CORPORATION 135 East Street, New York, New York-10017, U.S.A.	Solvent dewaxing process.
56.	133599	12-11-1971	SPOLANA NARODNI PODNIK, Neratoviee, Czechoslovakia.	Method & apparatus for continuously preparing perchloromethyl mercaptan.
57.	133612	15-11-1971	ESSO RESEARCH & ENGINEERING COMPANY OF LINDEN, NEW JERSEY.	Lithium soap grease.
58.	133669	17-7-1972	HINDUSTAN LEVER LIMITED of Hindustan Lever House 165 166 Backbay Reclamation, Bombay-20, Maharashtra.	Niacin-containing skin lightening composition.
59.	133677	19-11-1971	FARBWERKE HOECHST AKTIENGESELLSCHAFT VORMALS MEISTER LUCIUS & BRUNING, of 45 Bruningstrasse, Frankfurt/Main, Federal Republic of Germany.	Process for the manufacture of water soluble monoazo dyestuffs.
60.	133710	23-11-1971	Do.	Process for the manufacture of copper complex monoazo dyestuff..
61.	133711	23-11-1971	THE LUBRIZOL CORPORATION OF CLEVELAND, OHIO, 44117, U.S.A.	Method of flocculating solids suspended in aqueous medium.
62.	133734	25-11-1971	CIBA-GEIGY AG of Klybeckstrasse 141, Basle, Switzerland.	Treatment of Water system for preventing scale formation.
63.	133738	25-11-1971	FARBWERKE HOECHST AG VORMALS MEISTER LUCIUS & BRUNING, of 45 Bruningstrasse, Frankfurt/Main, Federal Republic of Germany.	Process for the preparation of water soluble disazo dyestuffs.
64.	133742	25-11-1971	INVENTA AG Fur Forschung und Patentverwertung, of Stampfenbachstrasse, 38, Zurich, Switzerland.	Process for purifying caprolactums.
65.	133782	29-11-1971	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B V of Carel Van, Bylandtlaan 30, The Hague, The Netherlands.	Process for the manufacture of synthetic fibres and fibres produced thereby.
66.	133819	1-12-1971	FARBWERKE HOECHST AG VORMALS MEISTER LUCIUS & BRUNING, of 45 Bruningstrasse, Frankfurt/Main, Federal Republic of Germany.	Process for manufacturing Water soluble metal complex monoazo dyestuffs.
67.	133821	1-12-1971	ETHICON INC. OF SOMMERVILLE, New Jersey, U.S.A.	Process for obtaining a sterile absorbable surgical suture.
68.	133840	3-12-1971	FARBWERKE HOECHST AKTIENGESELLSCHAFT VORMALS MEISTER LUCIUS & BRUNING OF 45 Bruningstrasse, Frankfurt/Main, F.R.G.	Process for the production Water soluble monoazo dyestuffs.
69.	133928	13-12-1971	SHOWA DENKO KABUSHIKI KAISHA OF NO 34 Shiba Miyo, Motocho, Tokyo, Japan.	Sintered agglomerates & method of producing the same.
70.	133956	15-12-1971	SNAMPROGETTI SPA OF 16 Corso Venezia, Milan, Italy.	Process for the recovery of aromatic hydrocarbons from mixtures containing the same.
71.	133969	16-2-1972	Do.	Process for the recovery of isoprene from mixtures containing the same.
72.	133997	18-12-1971	MITSUI PETROCHEMICAL INDUSTRIES LTD OF 2-5, 3-Chome, Kasumigaseki, Chiyoda-ku, Tokyo, Japan.	Improved process for producing terephthalic acid.
73.	134016	20-12-1971	CESKOSLOVENSKA AKADEMIE VED, of Praha, Czechoslovakia.	Method of producing thin walled articles from plastics or rubbers.
74.	134023	21-12-1971	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B V of Carel Van, Bylandtlaan 30, The Hague, The Netherlands.	A process for recovering ethylene oxide.
75.	134070	27-12-1971	STAMICARBON N V. OF VAN DER MAESENSTRAAT 2, Heerlen, The Netherlands.	Improved process for preparing urea.

CHEMICAL LIST NO. III

COMMERCIAL WORKING OF PATENTED INVENTION

The following Patents in the field of Chemical Engineering Industry are not being commercially worked in India as admitted by the Patentees in the Statements filed by them under Section 146(2) of Patents Ac 1970, in respect of calendar year 1983, generally on account of want of requests for licences to work the Patented inventions. Persons who are interested to work the said Patents commercially may contact the Patentees for the grant of a licence for the purpose.

Sl. No.	Patent No.	Date of Patents	Name and Address of the Patentees	Title of the inventions
1	2	3	4	5
1.	134099	28-12-1971	UNIVERSAL OIL PRODUCTS INC, OF 1EN UOP Plaza-Algonquin & Mt. Prospect Roads, Des Plaines, Illinois, U.S.A.	Hydrocarbon separation process.
2.	134107	28-12-1971	FARBWERKE HOECHST AKTIEN-GESELLSCHAFT VORMALS MEISTER LUCIUS & BRUNING OF 45, Brunningstrasse, Frankfurt/ Main, Federal Republic of Germany.	Process for the manufacture of Water soluble more reactive azo dyestuffs.
3.	134135	30-12-1971	SNAMPROGETTI S.P.A. of 16 Corso Venezia, Milan, Italy.	Process for separation of conjugated diolefins from mixtures containing them.
4.	134146	31-12-1971	CLUETT, PEABODY & CO. of 433 River Street, Troy, New York, U.S.A.	Method & apparatus for quickly treating fabrics with liquid ammonia.
5.	134147	31-12-1971	SINLOIHI CO. of No. 38 Nishino-shinono-cho, Kononama-ku, Osaka-shi, Japan.	Process for preparation of coloured resin particles.
6.	134151	31-12-1971	FARBWERKE HOECHST A.G. VORMALS MEISTER LUCIUS & Bruning of 45 Brunningstrasse, Frankfurt/Main, F.R.G.	Process for the preparation of basic oxazine dyestuffs.
7.	134152	31-12-1971	Do.	Process for the preparation of water soluble reactive mono-azo dyestuffs.
8.	134189	5-1-1972	UNIVERSAL OIL PRODUCTS COMPANY OF 1EN UOP Plaza-Algonquin & Mt Prospect Roads, Des Plaines, Illinois, U.S.A.	Method of preparing improved hydro desulfurization Catalyst.
9.	134206	6-1-1973	INDIAN EXPLOSIVES LTD of 34 Chowringhee Road, I.C.I. House, Calcutta-16, West Bengal, India.	Inorganic oxidiser salt containing aqueous slurry type blasting composition containing a mixture of fuel gas & oxygen as novel sensitisers.
10.	134208	6-1-1972	FARBWERKE HOECHST A.G. VORMALS MEISTER LUCIUS & BRUNING, of 45, Brunningstrasse, Frankfurt/Main, Federal Republic of Germany.	Shaped article made of thermoplastic moulding compositions on the basis of polyoxymethylenes and process for the manufacture thereof.
11.	134295	17-1-1972	HOWSON-ALGRAPHY LIMITED. of Murrky Road, Orpington, Kinet, England.	Method of removing (from a surface, a layer of light-sensitized poly-vinyl alconol) containing material which has become insolubilized.
12.	134299	17-1-1972	KNAPSACK AKTIENGESELLSCHAFT of Knapsack Near Koln, Federal Republic of Germany.	Production of acrylonitrile & methacrylonitrile.
13.	134325	19-1-1972	TEXACO DEVELOPMENT CORPORATION of 135 East 42nd Street, New York, New York-10017, U.S.A.	Fuel burner and process for gas manufacture.
14.	134409	28-1-1972	ALCAN RESEARCH & DEVELOPMENT LTD. of 1 Place Ville, Marie, Montreal, Quebec, Canada.	Direct dull casting of ingots.
15.	134431	13-1-1972	THE RUBBER RESEARCH INSTITUTE OF MALAYA of 3rd mile, Ampang Road, Kuala lumpur, Malaya.	Improvements in or relating to the stabilization of natural rubber.

1	2	3	4	5
16.	134536	8-2-1972	STAMICARBON N. V. of VAN DER MAEEN-S1RAAT 2, Heerlen, Netherlands.	Processing plant for processing at elevated temper .ture solutions containing ammonium carbonate.
17.	134679	19-2-1972	SHERRITT GORDON MINES LIMITED of 25 King Street, West Toronto, Ontario, Canada.	Process for the treatment of Nickel & cobalt bearing material.
18.	134694	21-2-1972	INTERNATIONAL NICKEL LIMITED OF 1HAMES House, Milloank, London, S.W.I. ENGLAND.	Process for the preparation of chromium nickel alloy products.
19.	134718	23-2-1972	HINDUSTAN LEVER LIMITED of Hindustan Lever House, 165-166, Backbay Reclamation, Bombay-400 020, India.	Process for the production of cold water soluble tea.
20.	134733	24-2-1972	UNION CARBIDE CORPORATION of 270 Park Avenue, New York, State of New York-10017, U.S.A.	Process for olefin separation.
21.	134748	25-2-1972	INSTITUT DE RECHOIDES DE LA SIDERURGIE, FRANCAISE OF 185, Rue President Roosevelt-78, Saint German-en-Laye, France.	Improvements in or relating to the metal feed supply of metallurgical plants which require regular flow of molten metal.
22.	134783	1-3-1972	SHINETSU CHEMICAL COMPANY OF 6-1 otemachi 2-chome, Chiyoda--ku, Tokyo, Japan.	Method for suspension-polymerizing vinyl chloride.
23.	134816	3-3-1972	JOHNSON & JOHNSON of 501, George Street, New Brunswick, New Jersey, U.S.A.	Method of making seltable plaster of paris.
24.	134832	4-3-1972	Do.	Method of improving gypsum cast forming compositions.
25.	134840	6-3-1972	SHELL INTERNATIONALE RESEARCH MATSHAPPIJ, B.V. OF Carel Van Bylandtlaan 30, The Hague, The Netherlands.	Process for the removal of soot grom aqueous suspension thereof.
26.	134860	7-3-1972	UNIVERSAL OIL PRODUCTS OF TEN UOP PLAZA-ALGONQUIN, Mt. Prospect Roads, Des Plaines, Illinois, U.S.A.	Hydrocarbon separating process.
27.	134871	8-3-1972	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ, B. V. of Carel Van Bylanditlaan, the Hague, The Netherlands.	Butadiene Recovery Process.
28.	135013	21-3-1972	RHONE PROGIL OF RUE, Piccing, 75, Paris 160, France.	Method of producing phosphoric acid and calcium sulphate.
29.	135096	29-3-1972	TELEFONAKTIE BOLAGET. L.M. ERICSSON OF 12611, Stockholm 32, Sweden.	Process for electroplating an alumium wire.
30.	135139	3-4-1972	RHONE-PROGIL-OF 06 Rue Piccini, 75 Paris 16 e, France.	A process for bulk polymerizing vinyl chloride or vinyl chloride & another monomer.
31.	135150	4-4-1972	SHERRITT GORDON MINES LIMITED of 25 Cing Street, West Toronto, Ontorio, Canada.	Method for reduction roasting Nickeliferrous laterite ores.
32.	135204	7-4-1972	PENNWALT CORPORATION OF PENWALT BUILDING THREE PARKWAY, Phildelphia, Pennsylvania-19102, U.S.A.	Purification of gaseous hydrogen chloride.
33.	135231	11-4-1972	UNILEVER LIMITED OF Unilever House, Blackfriars, London E.C. 4, England.	A process for the preparation of instant tea powder.
34.	135246	11-4-1972	E.I. DU PONT DE NEMOURS & CO. OF Wilmington, Delware, United States of America.	Method for preparing improved polyamide fibres and films.

1	2	3	4	5
35.	135328	19-4-1972	UNILEVER LIMITED OF UNILIVER HOUSE, Blackfrairs, London, E.C. 4, England.	A process for the preparation of instant tea powder.
36.	135360	4-12-1970	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. of Carel Van Bylandtlaan 30, The Hague, The Netherlands.	A process for expoxidizing olefins with hydrocarbons for producing oxirane compounds.
37.	135365	23-5-1972	KNAPSACK AKTIENGESELLSCHAFT, of Knapsack near Koln, Federal Republic of Germany.	Process for manufacture of acrylonitrile or methacrylonitrile.
38.	135382	15-2-1971	SNAMPROGETTI S.P.A. OF 16 Corso, Venezia, Milan. Italy.	Process for polymerizing a conjugated diene.
39.	135383	15-2-1971	Do.	Process for preparing a polyamine of aluminium.
40.	135477	29-7-1972	UNIVERSAL OIL PRODUCTS OF TEN UOP PLAZA-ALGONQUIN & MT. PROSPECT ROADS, Des Plaines, Illinois, U.S.A.	Hydrocarbon separation process.
41.	135496	27-6-1972	Do.	Improved process for concersion of alkylaromatic hydrocarbon to alkenyl aromatic hydrocarbons.
42.	135507	24-9-1971	UNION CARBIDE CORPORATION OF 270 Park Avenue, New York, State of New York 10017, U.S.A.	A process for improving the properties of ethylene polymerization catalysts.
43.	135517	18-5-1972	HOECHST AKTIENGESELLSCHAFT of 6230 Frankfurt/Mien 80, F.R.G.	Process for the manufacture of an ammoxidation catalysts.
44.	135581	14-10-1971	THE MEAD CORPORATION OF Talbolt tower, Dayton, Ohio-45402, U.S.A.	Apparatus for conducting chemical reactants between fluid reactants.
45.	135634	6-6-1972	SOCIETE MINIERE ET METALURGIQWE DE PENARROYA OF, 1, Boulevard devangirard, Paris, France.	Improved reactor for the production of leadoxide with high free lead content.
46.	135639	2-8-1972	THE RUBBER RESEARCH INSTITUTE OF MALAYA OF 3rd Mile, Ampang Road, Kuala Lumpur, Malaya.	A method of removing protein from natural rubber.
47.	135692	5-5-1972	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ,B.V. of Carel Van Bylandtlaan 30, The Hague, The Netherlands.	A process for the manufacture of gas mixtures containing carbon monoxide and hydrogen by the partial combustion of fuel in a reactor operated at relatively low pressure.
48.	135741	1-5-1972	SHERRITT GORDON MINES LTD OF 25 king street, West, Toronto Ontario, Canada.	Production of Nickel powder from a basic nickel carbonate.
49.	135770	14-6-1972	VICKERS LTD, of Vickers House, Millbank Tower, Millbank, London, SW1P 4RA, London.	Improvements in or relating to light sensitive material.
50.	135799	17-5-1972	THE GOODYEAR TIRE & RUBBER COMPANY OF 1144 East Market, Street, Akron, Ohio, U.S.A.	Improvements relating to a process for preparing age resistant polymers.
51.	135803	3-5-1972	UNIVERSAL OIL PRODUCTS COMPANY OF TEN UOP PLAZA-ALGONQUIN & MT. Prospect Roads, Des Plaines, Illinois, U.S.A.	Fluidized catalystic cracking or fluidized catalytic dehydrogenation process.
52.	135805	23-10-1972	TEXACO DEVELOPMENT CORPORATION OF 135, East 42nd Street, NEW YORK-10017, U.S.A.	Process for the production of a reducing gas.

1	2	3	4	5
53.	135810	4-9-1972	FARBWERKE HOECHST AKTIENGESELLSCHAFT VORMALS, MEISTER LUCIUS & BRUNING, of 45, Bruningstrasse, Frankfurt/ Main, F.R.G.	Process for the preparation of fast dyeing 8 prints on fibrous materials containing hydroxyl groups on nitrogen.
54.	135863	5-7-1972	RHONE-PROGIL OF 6 Rue Piccini 75 Paris 16C, France.	A process for carrying out bulk polymerization.
55.	135878	20-6-1972	International Nickel Limited of Thames House, Millbank, London, SW1 P 40 F.	Improvements in or relating to a method of obtaining a chromium containing alloy.
56.	135899	23-5-1972	HINDUSTAN LEVER LIMITED OF HINDUSTAN LEVER HOUSE, 165-166, Backbay Reclamation, Bombay-20, Maharashtra, India.	A method of protecting hypo chlorites for inclusion in a detergent composition.
57.	135902	10-7-1972	THE GOODYEAR TIRE & RUBBER COMPANY OF 1144 East, Market Street, Akron, Ohio, U.S.A.	A process of preparing 2-(4 morpholinodithio)-benzo thiazole.
58.	135937	4-7-1972	FARBWERKE HOECHST AG. G. VORMALS MEISTER LUCIUS & BRUNING, of 45 Bruningstrasse Frankfurt/Main, F.R.G.	Process for the preparation of water soluble reactive santhene dyestuffs.
59.	136010	6-9-1972	FMC CORPORATION OF 633, Third, Avenue, New York-17, U.S.A.	Curing of green briquettes with air.
60.	136017	28-4-1972	AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION Of P. O. Polytechnic, Ahmedabad, 15, India.	A process for preparation of granular alkali metals salts of carboxymethyl ethers of polysaccharides.
61.	136099	25-8-1972	ZIMMER AKTIENGESELLSCHAFT, of 6 Frankfurt/Main, German, Federal Republic.	Process for stretching a cable polyester threads.
62.	136123	1-8-1972	CIBA-GEIGY AG of 141 Klybeckstrasse, Basle, Switzerland.	Process for manufacturing new dyestuff salts.
63.	136168	5-1-1973	SHELL INTERNATIONALE RESEARCH MAATSHAPPIJ, B.V. of Carel, Van Bylandtlaan 30, The Hague, The Netherlands.	Process for producing silver catalyst.
64.	136198	31-10-1972	ECAR PRODUCTS INC. (GREAT EASTERN & ETC) of Wilmington, Delware, U.S.A.	Process for de-inking printed waste cellulosic stock.
65.	136242	3-5-1972	FARBWERKE HOECHST AKTIENGESELLSCHAFT VORMALS, MEISTER LUCIUS & BRUNNING, of 45 Brunningstrasse, Frankfurt/ Main, F.R.G.	Process for the preparation of water-soluble monoazo dyestuffs.
66.	136245	27-4-1972	AIKOH COMPANY LTD, of No. 1-39, 2-chome, Ikenhata, Taito-ku, Tokyo, Japan.	A desulfurizing agent for a molten pig iron.
67.	136262	17-8-1972	FARBWERKE HOECHST A.G. VORMALS MEISTER LUCIUS & BRUNING of 45 Bruningstrasse, Frankfurt/Main, F.R.G.	New water soluble monoazo-pyrazolone dyestuffs and a process for preparing them.
68.	136321	19-5-1972	SHERRITT GORDON MINES LIMITED of 2800, Commerce Court, West Toronto, Ontario, Canada.	Production of Nickel powder from basic Nickel carbonate.
69.	136340	5-1-1973	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ. V.G. of carel van Bylandtlaan 30, The Hague, The Netherlands.	Process for the preparation of ethylene oxide.
70.	136375	1-12-1972	EISENWERK-GESELLSCHAFT MAXIMILIANSHUTTE, m.o.H. of 8458, Sulaback-Rosenberg, West Germany.	Process for refining low-hphosphorous pig ironto make steel.

1	2	3	4	5
71.	136388	9-11-1972	FARBWERKE HOECHST AG. VORMALS MEISTER LUCIUS BRUNING. of 45 Bruningstrasse, Frankfurt/Main, Federal Republic of Germany.	Process for the preparation of water-insoluble monodyestuffs.
72.	136395	29-9-1972	UNION CARBIDE CORPORATION OF 270 Park Avenue, New York, State of New York, U.S.A. 10017.	Reduced mercury-containing zinc alkaline cells.
73.	136567	21-6-1972	HOECHST AKTIENGESELLSCHAFT of 6230, Frankfurt/Main, F.R.G.	Process for the preparation of sulfo-succinic acid semi-esters.
74.	136614	26-8-1972	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. of Carel, Van Bylandtlaan 30, The Hague, The Netherlands.	A process for the concentration and purification of aqueous solution of ethylene oxide.
75.	136668	21-6-1972	HOECHST AKTIENGESELLSCHAFT OF FRANKFURT/MAIN, 80 F.R.G.	Dyestuff Dispersions.

CHEMICAL LIST NO. 1

COMMERCIAL WORKING OF PATENTED INVENTION

The following Patents in the field of Chemical Industry are not being Commercially worked in India as admitted by the Patentees in the statements filed by them under Section 146(2) of Patents Act 1970, in respect of calendar year 1983, generally on account of want of requests for licences to work the Patented inventions. Persons who are interested to work the said Patents commercially may contact the Patentees for the grant of a licence for the purpose.

Sr. No.	Patent No.	Date of Patent	Name and Address of Patentees	Title of the invention.
1	2	3	4	5
1.	115800	7-5-1968	SNAMPROGETTI S.P.A. of 16 corso, Venezia, Milan. Italy.	Process for the production of urea.
2.	116552	28-6-1968	SNAMPROGETTI s.p.a. of 16 Corso Venezia, Milan, Italy.	Process for the production of urea.
3.	116611	2-7-1968	SUMITOMO ELECTRIC INDUSTRIES LTD, No. 15 Kitaham 5-chome, Higashi-ku, Osaka, Japan.	An insulating varnish and method of preparing the same.
4.	120343	14-3-1969	F. HOFFMANN-La-Roche & Co., 124- 84, Grenzacherstrasse, Basle, Switzerland.	Fungicial composition.
5.	120369	17-3-1969	MONSANTO COMPANY of 800 North Lindbergh, Boulevard, St. Louis Missouri 63166, U.S.A.	Inhabiting premature vulcanization of diene rubbers and dyeing rubber vulcanizations compositions.
6.	121974	24-6-1969	SNAMPROGETTi s.p.a. 16 Corso, Venezia, Milan, Italy.	Fibres containing enzymes process for their preparation and their use in enzymatic reactions.
7.	123569	14-10-1969	(i) KUMIAI CHEMICAL IND CO. LTD. (ii) MITSUI TOATSU CHEMICAL INC. of (i) No. 4026. IKENHOTA, 1-chome, Taito-ku Tokyo Japan (ii) of Kasumigaseki Bldg. 8F. No 2-5, 3-Chome, Chiyoda-ku, Tokyo, Japan.	Mixed herebicide composition.
8.	124545	22-12-1969	SNAMPROGETTI S.P.A. OF 16 Corso Venezia, Milan, Italy.	Improvements in or relating to the production of urea.
9.	125177	6-2-1970	ISHIHARA SANGYO KAISHA LTD. of No 3-11, Edobori, 1-Chome, Nishi-ku Osaka, Japan.	A process for the production of a titanium dioxide concentrate.

1	2	3	4	5
10.	125271	3-3-1969	SHERRITT GORDON MINES LIMITED of 2800 Commerce Court, West, Toronto, Ontario, Canada.	Process for treating low iron nickel ferrous ores.
11.	125603	20-4-1972	PFIZER INC. 235, East 42nd Street, New York, State of New York, U.S.A.	Direct mono-esterification of arly-malonic acids.
12.	125991	30-3-1970	SNAMPROGETTI S.P.A. of 16 Corso Venezia, Milan, Italy.	Purification of Urea solutions
13.	126626	15-5-1970	DAVIS AND GECK INC. of P.O. BOX 45, Manati, Puerto-00701.	Absorbable polyglycolic acid filaments useful as suture of enhanced in-vivo strength retention and method and apparatus for preparing same.
14.	126882	1-6-1970	DAVIS AND GECK, INC. of P.O. BOX 45, Manati Puerto, Rico-00701.	Storage stable package for absorbable polyglycolic acid sutures and process for preparing the same.
15.	126902	2-6-1970	Farbwerke Hoechst Akitengesellschaft Vorm Is meister Lucius and Briining of 45 Briiningstrasse Frankfurt/Main, Federal Republic of Germany.	Process for the manufactiue of water soluble monoazo dyestuffs process dyeing printing or colouring textile m teri ls using said dyestuffs and textile materials so dyed, coloured or printed.
16.	127104	16-6-1970	ETHICON INC. of Sommerville, New Jersey, U.S.A.	Polypropylene non-absorbable suture.
17.	127492	10-7-1970	Wilhelm Schelkmann, of 581, Wiffen, creigel longst- 85 German. Federal Republic.	Process and device for vulcanization of prev ulc nized treads or rings with normal or lighter profiles.
18.	127513	13-7-1970	UNITED KINGDOM ATOMIC ENERGY AUTHORITY of 11 charles II, Street, London S W 1 England.	Reverse osmoses membrane assemblies.
19.	127626	20-7-1970	SNAMPROGETTI 1 S.P.A of 16 Corso Venezia, Milan, Italy.	Process for the extraction of aromatic hydroc rbons.
20.	127646	21-7-1970	SNAMPROGETTI S.P.A. of 16 Corso Venezia, Milan, Italy.	Process for the separation of conjugated diolefins from mixtures containing the same.
21.	127658	22-7-1970	SNAMPROGETTI S.P.A. of 16 Corso Venezia, Milan, Italy.	Process for the extraction of aromatic hydroc rbons from mixtures of aromatic and aliphatic hydrocarbons.
22.	127753	28-7-1970	Farbwerke Hoechst Aktiengesellschaft Vorm Is Meister Lucius and Briining of 45 Briining strasse, Frankfurt/Main, Federal Republic of Germany.	Process for the manufacture of copper containing monoazo dyestuffs.
23.	127973	11-8-1970	Union Carbide Corporation, of 270 Park Avenue, New York state of New York 10017, U.S.A.	Cryogenic air separation process.
24.	127981	11-8-1970	ISHIHARA SANGYO KAISHA LTD. of No. 3-11, Edobori 1-chome, Nishi-ku, Osaka, Japan.	Process for producing titanium dioxide concentrate.
25.	128278	2-9-1970	SNAMPROGETTI S.P.A. of 16 Corso Venezia, Milan, Italy.	Process for the production of ethylene oxide.
26	128386	11-9-1970	TEDECO TEXTILE DEVELOPMENT CO A/S. of St. Clave Gate, 21B oslo 1, Norway.	Apparatus for treatment of fabrics with liquid ammonia.
27.	128542	22-9-1970	TEXACO DEVELOPMENT CORPORATION, of 135 East 42nd street New York, State of New York, 10017, U.S.A.	Improvements in or relating to the production of synthesis gases and fuel gases.
28.	128566	23-9-1970	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. of Carel Van Bylandtlaan 30, the Hague, The Netherlands.	A process for the removal of solid particles from an aqueous suspension and an apparatus therefor.

1	2	3	4	5
29.	128576	24-9-1970	Universal Oil Products of 30 Algonquin Road, Desplaines-Illinois, U.S.A.	Continuous reforming regeneration process
30.	128799	13-10-1970	Farbwerke, Hoechst Aktiengesellschaft, Vormals, Meister Luc us and Bruning, of 45 Bruning strasse, Frank furt/Main, Federal Republic of Germany,	Process for preparing water soluble anthraquinone dyestuffs
31.	128907	20-10-1970	SNAMPROGETTI S. PA. od 16 Corso Venezia, Milan, Italy.	Process for the production of urea.
32.	129095	3-11-1970	HOECHST AKTIENGESELLSCHAFT of, 45 Bruningstrasse, Frankfurt/main, Federal Republic of Germany.	Process for preparing water soluble reactive Xanthenium dyestuffs.
33.	129162	10-11-1970	SHERITT GORDON MINES LIMITED of 25, King street, West Toronto, Ontario, Canada.	Method for extracting Nickel and cobalt values from laterite ore.
34.	129231	21-5-1971	TEXACO DEVELOPMENT CORPORATION of 135 East 42nd Street New York, 10017, U.S.A.	Process for the production of synthesis gas.
35.	129263	17-11-1970	SNAMPROGETTI S.P.A. of 16 Corso Venezia, Milan, Italy.	Process for treating effluent gases in the ammonia synthesis.
36.	129304	19-11-1970	FARBWERKE HOECHST AKTIENGESELLSCHAFT, Vormals Meister Lucius and Brunning of 45 Brunningstrasse, Frankfurt/main, Federal Republic of Germany.	Process for the preparation of amino phenyl alkyl ethers.
37.	129331	20-11-1970	TEXACO DEVELOPMENT CORPORATION, of 135 East 42nd Street, New York-10017, U.S.A.	Producion of reducing gas.
38.	129349	28-7-1971	HINDUSTAN LEVER LIMITED of 165-166, Backbay, Reclamation, Bombay-20. India.	Process for preparing catalyst.
39.	129375	24-11-1970	UDDEHOLMS AKTIEBOLAG of 68305, Hagfors, Sweden.	Method and device for accelerating the solidfication of drops in the manufacture of powder.
40.	129438	30-11-1970	UNIVERSAL OIL PRODUCTS, of No. 30, Algonquin Road, Des plaines, State of Illinois, U.S.A.	Process for the production of para-xylene and gasoline.
41.	129493	4-12-1970	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. of Carel Van Bylandtlaan, 30, the Hague, The Netherlands.	Improved process for the production of a silica-titania catalyst suitable for use in liquid phase epoxidation of olefins with organic hydro-peroxides.
42.	129569	11-12-1970	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ, B.V. of Carel Van Bylandtlaan, 30 The Hague, The Netherlands.	A process for producing a substantially sulphur free gas stream and hydrogen sulphide rich gas stream from cloos off.
43.	129643	17-12-1970	FARBWERKE HOECHST GESELLSCHAFT VORMALS MEISTER, LUCIUS & BRUNING of 45, Bruningstrasse, Frankfurt/MAIN, Federal Republic of Germany.	Process for the manufacture of Water soluble monoazo dyestuffs.
44.	129697	22-12-1970	UGINE KUHLMANN of 10 Rue du, General Foy, Paris, France.	Production of reaction products of phosphoric acid, urea & ammonia.
45.	129769	29-12-1970	UNIVERSAL OIL PRODUCTS of No. 30 Algonquin Road, Desplaines State of Illinois, U.S.A.	A process for the production of a selected aromatic hydrocarbon.
46.	129831	4-1-1971	UNIVERSAL OIL PRODUCTS of No. 30 Algonquin Road, Des plaines, State of Illinois, U.S.A.	C 8-alkyl aromatic isomerization process.
47.	129834	4-1-1971	THE LUBRIZOL CORPORATION OF cleveland ohio 44117, U.S.A.	Method for preparation of amidoalkane sulfonic acids.

1	2	3	4	5
48.	129855	6-1-1971	HINDUSTAN LEVER LIMITED of 165-166, Backbay Reclamation, Hindustan Lever House, Bombay-20, Maharashtra, India.	Extraction of tea and preparation of instant tea powder from the extract so obtained
49.	129856	6-1-1971	JOHNSON & JOHNSON of 501 George street New Brunswick, New Jersey, U.S.A.	Conformable adhesive sheet.
50.	129961	15-1-1971	MITSUBISHI GAS CHEMICAL COMPANY INC. of 5-2, Marunouchi 2-chome, chiyoda-ku, Tokyo, Japan.	Process for producing a formaldehyde aqeous solution having a low methonal content.
51.	130009	20-1-1971	Shell Internationale Research Maatschappij, of Carel Van. Bylandtlaan 30, The Hague, The Netherlands.	Method for the automatic watching of an apparatus for the preparation of cooling of synthesis gas.
52.	130072	27-1-1971	The lubrizol corporation of Clevedano, Ohio, 44117, U.S.A.	High molecular weight malic and fumaric acid esters and esters and fuels containing the same.
53.	130088	28-1-1971	SOLVAY ET CIE, of 33 Rue due prince, Albert, B-1050, Brussels, Belgium.	Process for the preparation of a Zeigler-natta type catalyst.
54.	130121	1-2-1971	IMPERIAL CHEMICAL INDUSTRIES LTD. of Imperial Chemical House, Millbank, London, Sw1, England.	Treatment of Brine
55.	130178	4-2-1971	HINDUSTAN LEVER LIMITED of Hindustan Lever House, 165-166 Backbay Reclamation, Bombay-20, Maharashtra, India.	Improvements relating to the treatment of karanja oil.
56.	130238	11-2-1971	Do.	Anti-plaque & anti-calculus dentifrice.
57	130270	15-2-1971	SNAMPROGETTI S.P.A. of 16 Corso, Venezia, Milan, Italy.	Process for the separation of a partially hydrogenated polyamine and aluminium.
58.	130282	16-2-1971	Farbwerke Hoechst Aktiengesellschaft Vormals, Meister Lucius & Bruning of 45 Bruning strasse, Farankfurt /Main, Federal Republic of Germany.	Process for preparing water soluble monoazo dyestuffs.
59.	130367	25-2-1971	FARBWERKE HOECHST AKTIENGESELLSCHAFT VORMALS MEISTER LUCIUS & BRUNING, of 45 Bruningstrasse, Frankfurt/ Main, Federal Republic of Germany.	Metal Complex compounds of the mono azo dyestuffs and process for their preparation.
60.	130371	25-2-1971	DEUTSCHE GOLD-UND SILVER-SCHEIDEANSTALT VORMALS ROESSLER of 9 Weissfranenstrasse frankfurt (Main), Federal Republic of Germany.	Calcium thioetate.
61.	130379	25-2-1971	F.L. SMITH & CO. A/S, of 77 Vigersley Alle, DK-2500, Copenhagen Valby, Denmark.	Treatment of cement raw materials and plants for use therein.
62.	130416	1-3-1971	SHELL TINERNATIONALE RESEARCH MAATSCHAPPIJ B.V. of Carel Van Bylandtlaan 30 the Hague, the Netherlands.	A process for the selective removal of hydrogen sulphide from gasets containing hydrogen sulfide and carbon dioxide.
63.	130489	5-3-1971	FARBWERKE HOECHST AKTIENGESELLSCHAFT VORMALS MEISTER LUCIUS & BRUNING, of 45 Brunning strasse, Frankfurt/Main, Federal Republic of Germany.	Process for the manufacture of water soluble monoazo dyestuffs.
64.	130631	18-3-1971	METALLGESELLSCHAFT AG. Etc of 6 Frankfurt AM, Reuterweg 14, West Germany.	Process of removing hydrogen fluoride.
65.	130690	23-3-1971	FARBWERKE HOECHST AKTIENGESELLSCHAFT VORMALS MEISTER LUCIUS & BRUNING of 45 Brunjngstrasse, Frankfurt/main, Federal Republic of Germany.	Process for the manufacture of metal containing azo dyestuffs.

1	2	3	4	5
66.	130719	25-3-1971	Universal Oil Products of Ten UOP Plaza-Algonquin & Mt. Prospects Road, Des Plaines, Illionois, U.S.A.	Apparatus for reconditioning and re-forming catalyst
67.	130775	29-3-1971	Shin-Etsu Chemical Company Ltd., of 4-2, Marunouchi 1-chome chiyoda-Ku, Tokyo, Japan.	Method for suspension-polymerizing vinyl chloride.
68.	130799	30-3-1971	UBE INDUSTRIES LIMITED, of 12-32, 1-Chome, Nishihommachi, Uke-shi, Yamaguchi-ken, Japan.	The process for treatment of a reaction product obtained by oxidation of cyclohexane.
69.	130800	30-3-1971	SNAMPROGETTI S.P.A. OF 16 Corso Venezia, Milan Italy.	Process for the production of urea.
70.	130801	30-3-1971	SNAMPROGETTI S.P.A. OF 16 Corso, Venezia, Milan, Italy.	Process for producing urea.
71.	130891	7-4-1971	Universal Oil Products of Ten Uop Plaza Algonquin, Mt. Prospect Roads, Desplaines, Illinois, U.S.A.	Lubricating oil base stock production.
72.	131044	20-4-1971	GENERAL ELECTRIC COMPANY, of 1, River Road, Schenectady, New York U.S.A	Process for producing a sintered cobalt-rare earth intermetallic product.
73.	131046	20-4-1971	SHIN-ETSU CHEMICAL COMPANY, of 4-2 Marunouchi, 1-chome, chiyoda-ku, Tokyo, Japan.	Process for preparing poly vinyl chloride by suspension, polymerization.
74.	131055	20-4-1971	NISSAN CHEMICAL INDUSTRIES LTD, 7-1, 3-Chome, Nishiki-cho, kanda, chiyoda-ku, Tokyo, Japan.	Wet process for production of phosphoric acid & gypsum.
75.	131139	27-4-1971	Dunlop Holding Limited of Dunlop house, Ryder, Street, St. James, London, SW1, England.	Contact adhesives.

COMMERCIAL WORKING OF PATENTED INVENTION

MECH. & GEN. ENGG. LIST NO. II

The following Patents in the field of Mechanical & General Engineering Industry are not being worked commercially in India as admitted by the Patentees in the statements filed by them under section 146(2) of the Patents Act, 1970 in respect of calender year 1983, generally on account of want of requests for licences to work the Patented inventions. Persons who are interested to work the said Patents commercially may contact the Patentees for the grant of a licence for the purpose.

Sl. No.	Patent No.	Date of Patents	Name and Address of the Patentees.	Title of the inventions.
1	2	3	4	5
1.	133226	14-10-1971	WESTINGHOUSE AIR BRAKE COMPANY of Pittsburgh, Pennsylvania U.S.A.	A fluid-pressure brake equipment.
2.	133238	15-10-1971	CLUETT, PEABODY & CO., INC. of 433 River Street, Troy, New York U.S.A.	Method and apparatus for compressively shrinking simultaneously a plurality of layers of fabrics.
3.	133239	15-10-1971	JERVIS B. WEBB COMPANY of 9000 Alpine Avenue, Detroit, Michigan 48204, U.S.A.	Improvements in conveyor carriers.
4.	133270	19-10-1971	GIRLING LIMITED OF KINGS ROAD, TYSELEY BIRMINGHAM 11, ENGLAND.	Improvements in disc brakes for vehicles.
5.	133284	20-10-1971	RO-SEARCH INCORPORATED of Waynesville, North Carolina, U.S.A.	Foot wear and method and device for its manufacture.
6.	133482	4-11-1971	DEERE AND COMPANY OF MOLINE, Illinois, U.S.A.	Process for finishing patterns and core boxes.
7.	133527	8-11-1971	TERRANCE J. WATERS OF 33560 Mulholland, High Way, Malilre California 90265, U.S.A. Malilre.	Hyperboloid buildings.

1	2	3	4	5
8.	133560	10-11-1971	USS ENGINEERS AND CONSULTANTS OF 600 Grant Street, Pittsburg, State of Pennsylvania, U.S.A.	A temperature sensing device.
9.	133567	10-4-1972	SRINIVASAN MANI of Ground floor 130/B, Jodhpur Park, Calcutta-31, West Bengal, India.	Improvements in hydraulic pumps or motors.
10.	133643	16-11-1971	TAPROGGE GESELLSCHAFT mbH. of 4034, Angermund, Wachelderstrasse 7, German, Federal Republic.	A filter device for separating solids from fluids flowing in pipes.
11.	133862	7-12-1971	UNIVERSAL OIL PRODUCTS COMPANY OF TEN UOP Plaza-Algonquin & Mt. Prospect Roads, Des Plaines, Illinois, U.S.A.	Improved vapour liquid contacting device.
12.	133884	8-12-1971	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ N. V. OF Care Van Bylandtlaan 30, The Hague, The Netherlands.	Mixing apparatus for gases.
13.	133917	10-12-1971	SCHWBERT & SALZER MASCHINENFABRIK AG. of Rommerstrasse 11/12, 8070, Ingoistadt, West Germany.	A method and apparatus for stopping and starting one or more open spinning. devices.
14.	133934	14-12-1971	PIPE SUPPORTS LTD. OF Corporation works, Hainge Road, Jividals, in the country of worcester, England.	Improvements in or relating to pipe supports.
15.	133941	15-12-1971	WILHELM STAHLECKER G.m.b.H. of 7341 Reichenbach, West, Germany.	Bearing unit for open-end spinning turbines.
16.	133955	15-12-1971	WILTSHIRE CUTLERY CO. PTY LTD. of 36-38 Albert Road, South Melbourne in the state of Victoria, Commonwealth of Australia.	Knife scabbar or holder.
17.	134013	20-12-1971	SCOVILL MANUFACTURING COMPANY , of Waterbury, County of New Haven, State of Connecticut, U.S.A.	Improvements in or relating to valves pressurible containers.
18.	134030	21-12-1971	TATA LAKSHMINARAYANA, MAMDUR RADHAKRISHNAMURTHY ETC. of oil Technological Research, Institute, Anantapur, Dept. of Industries, Andhra Pradesh, India.	Process of decuticuling seeame seeds.
19.	134052	2-9-1972	AHMEDABAD TEXTILE INDUSTRY'S ASSOCIATION OF P. O. Polytechnic, Ahmedabad-15, Gujarat, India.	An apparatus for obtaining visual representation of moire patterns of Pitch-bond or Metal Reeds to check unifomity of Dent. and air spacing in the Reeds.
20.	134072	27-12-1971	MASS TRANSFER LIMITED OF District Bank Chambers, High Street, New Castle Staffordshire, England.	Fluid-fluid control apparatus.
21.	134077	27-12-1971	MITSUBISHI PETROCHEMICAL CO. LTD, of 3-1, 2-Chome, Marunouchi, Chiyoda-ku, Tokyo-To, Japan.	A method of manufacturing an elongated articles.
22.	134237	10-1-1972	SRINIVASAN MANI of Ground floor, 130/B, Jodhpur Park, Calcutta-31, State of W. Bengal, India.	Gearing and lubricating means thereof.
23.	134238	10-1-1972	SRINIVASAN MANI of Ground floor, 130/B, Jodhpur, Park, Calcutta-31, State of W. Bengal, India.	Gearing and lubricating meansthere-for assemblies.
24.	134288	28-2-1972	ETHICON INCORPORATED, of Sommerville, New Jersey, U.S.A.	Retention Suture bridge.
25.	134318	19-1-1972	SEALED POWER CORPORATION, of 2001 Sunford Street, Muskegon, State of Michigan, 49443, U.S.A.	Improvements in and relating to piston ring assemblies.

1	2	3	4	5
26.	134381	25-1-1972	AGROPHYSICS INC. of 360 Pine Street, San Francisco, California, UNITED STATES OF AMERICA.	Device for insertion in to the reproductive tract of animals or human beings.
27.	134457	1-2-1972	FEDERAL-MOGUL CORPORATION OF 26555 North, Western, Highway, South field-48075, U.S.A.	Clutch release bearing.
28.	134475	2-2-1972	NORTON COMPANY of 1 New Bond Street Worcester, State of Massachusetts, U.S.A.	Production of fused abrasives.
29.	134518	7-2-1972	BURMAH OIL TRADING LIMITED. of Burmah House 57, Chiswell Street, London, W.C.1, England.	Improvements in or relating to hydraulic fluids.
30.	134587	11-2-1972	Wilhelm Stahlecker, of 7341, Reichenbaach, West Germany.	spinning turbine.
31.	134628	16-2-1972	Westinghouse Brake and Signal Co. Ltd. of 82 Yorkway Kings Cross London N 19AJ, England.	Valve means.
32.	134662	18-2-1972	Sunkist Growers Inc. of 14130, Riverside drive, Sherman Vaks, State of California, U.S.A.	Apparatus for automatically selecting between a plurality of generally spherical objects.
33.	134778	1-3-1972	Nippon Card Clothing Co. of 13-1, Shibasaki, 2-chome, chofu-shi, Tokyo, Japan.	Flat arrangement of a fixed type usuable for carding engines.
34.	134831	4-3-1972	David Lineolin Rowland, of 8, East, 62nd Street, New York, 10021, U.S.A.	Assemblies of seats and backs usable in furnitures, automobiles, other transport Vehicles.
35.	134885	8-3-1972	Heinrich wigger & Co. Mashinenfabrik of 475 of Unnd/West f, Morgenstr 39/41, German Federal Republic.	Chopper (chipping mchines) for the crushing particularly of raw materials of small cross section such as wood waste (chips of wood) and similar material.
36.	134889	9-3-1972	Girling Ltd. of Kings Road, Tyseley, Birmingham 11, England.	Improvements relating to sliding caliper discbrakes.
37.	134890	9-3-1972	Do.	Improvements in and relating to sliding caliper discbrakes.
38.	134991	20-3-1972	Repla International S.A.H., of 56 Boulevard Napoleon, Luxemburg, Grand Duchy of Luxemburg.	Method and means for producing an article cat-cuking strip and an article catching strip produced thereby.
39.	135015	21-3-1972	Canon Kabushiki Kaisha, of 30-2, 3-chome, shimomaruko, ohtaku, Tokyo, Japan.	Method of transferring images developed by a liquid developer in electrophotographic process.
40.	135022	22-3-1972	William Pyrm-Werke KG. of 519 Stolborg/Rhid Szweefaler Str. 5-7, Federal Republic of Germany.	Method of and apparatus for manufacturing a sliding clasp fastener.
41.	135084	28-3-1972	Automotive Products Co. of Tachbrook Road, Leamington Spa, Warwickshire, CV 31 3ER England.	Improvements in or relating to friction clutches.
42.	135176	5-4-1972	McNeil Corporation of 96 East Cresier Street, Akron, Summit county, Ohio, 44311, U.S.A.	Apparatus and method for controlling manufacturing process.
43.	135177	5-4-1972	USS Engineers & Constultants INC. of 600 Grant Street, Pitsburgh, State of Pennsylvania, U.S.A.	Method of and apparatus for treating liquid steel.
44.	135186	6-4-1972	Do.	Method of an apparatus for replacing a holder for a pouring tube on a bottom pour vessel.
45.	135321	18-4-1972	F.L. Smidth & Co. A/S, of 77 Vigerslev Alle, DK-2500 Copenhagen, Valby Denmark.	Method of assembling planetary cooler tubes on rotary kilns.

1	2	3	4	5
46.	135369	25-5-1972	Girling Ltd. of Kings Road, Tyseley, Birmingham 11, England.	Fluid level indicating devices.
47.	135450	23-7-1971	SEALED POWER CORPORATION, of 2001, Sanford street, Muskegon, Michigan 49443, U.S.A.	Improvements in the manufacture of spacer-expanders.
48.	135451	23-7-1971	Do.	Improvements in the manufacture of spacer-expenders.
49.	135452	23-7-1971	Do.	Improvements in the manufacture of spacer-expenders.
50.	135453	23-2-1971	Do.	Improvements in the manufacture of spacer-expanders.
51.	135454	5-7-1972	Ruti Machiner works Ltd. of 8630 Ruti, Zurich, Switzerland.	Adevice for braking the picker, stick of a loom.
52.	135469	18-5-1972	Variable Kinetic Drives Ltd. of Rose cottage, Pillory Green, Napton, Rugby Warwickshire London.	Torque converter couplings.
53.	135565	6-9-1972	Combustion Engineering INC. of 100° Prospect Hill road, Windsor, Connecticut, U.S.A.	A method of manufacturing pipe bendo from cold formed half tori and a apparatus for cold forming torus.
54.	135602	16-5-1972	American Standard INC. of 4° West, the street, New York, 10018, U.S.A.	Quickservice value device for fluid pressure brake system.
55.	135603	26-4-1972	HEIMO GERATEBAU G.m.bH. of 7992/ISNY/Allgen, Max-Eyth, weg, 42, German, Federal Republic.	Spraying or smoke-laying apparatus.
56.	135620	21-11-1972	Harold George Poole, of Aspenden House, Bungting ford, Hertfordshire, England.	Improvements in or relating to towing connections.
57.	135621	3-2-1972	William Pyrm Werke KG. of 519 Stolbera/Rhid Zweifaller str. 5-7, Federal Republic of Germany.	An apparatus for manufacturing sliding clasp fasteners.
58.	135631	9-10-1972	Robert Bosch G.m.b.H, of Postfch 50, 7, Stuttgart 1, West Germany.	Improvements in and relating to a fuel injection pump for interval combustion engine.
59.	135712	9-6-1922	Palitex Pr oject. Co. of Weeserweg 8 415° Krefeld, West Germany.	Scrapping roller.
60.	135735	17-5-1972	F.L. Smidth & Co. of A/S,77, Vigerslev Alle, DK-2500 Copenhagen of Valby Denmark.	Rotary kiln.
61.	135736	21-8-1972	Jervis B Webb Co. of 9000 Alpine Avenue, Detroit, Michigan, 48204, U.S.A.	Conveyer system.
62.	135747	18-7-1972	Hunt & Moscrop Ltd. of Apex Works Middleton junction, Country of Lancaster, England.	Improvements in textile fabric or paper shrinking machines.
63.	135751	8-8-1972	The Timken Co. of 1835, Dueber Avenue, S.W. Canton, Ohio, U.S.A.	Apparatus for rolling strip material.
64.	135762	1-7-1972	Palitex Project-Co. of G.m. b.H. Weeserweg 8, 415 Krefeld, West Germany.	A device for braking and stopping a spinning or twisting spindle more especially a double twisting spindle in a specific position of a spindle.
65.	135773	8-9-1972	Wilhelm Stahlecker G.m. b.H. of D-7341 Reichenbach bei, Geislingen/steige, West Germany.	Improvements relating to mountings for open end or break-spinning mach ines.
66.	135774	8-9-1972	Do.	Open end spinning machines.
67.	135784	11-10-1972	GUSTAV SCHADE MASCHINENFABRIK GmbH & Co. of D-46, Dortmund Am Rosenplatzchen 120, F.R.G.	Scraper for the removal of material from storage for use with bulk material dump.

1	2	3	4	5
68.	135822	19-9-1972	Massey Ferguson Services N.V., of Abraham de Veerstraat 7A, Curacao, Netherlands Antilles.	Draft-control linkage tractor.
69.	135836	1-7-1972	Palitex Project Co. G.mb H, of weeserweg 8, 415, Krefeld West, Germany.	A spinning or twisting machine especially a double thread twisting machine.
70.	135880	4-10-1972	Combustion Engineering INC. of 100 Prospect Hill Road Connecticut USA.	A mechanical separator.
71.	135934	30-5-1972	NATIONAL INSTITUTE OF DESIGN, of Paldi, Ahmedabad-1. Gujarat State, India.	A cycle.
72.	136014	6-7-1972	HANS GEORG SCHWAGER, of Plaisante 6, CH-1012, Lousanne, Switzerland.	Flyer wings for spinning frames.
73.	136036	17-7-1972	EGON SCEUBECK, of 5, Eichenstrasse, Zeetlarn, Rogensburg, West Germany.	Improvements in or relating to regulating transformers.
74.	136062	22-6-1972	Girling Ltd. of Kings road, Tyseley, Birmingham 11, England.	Disc for vehicles.
75.	136090	12-2-1973	Beloit Corporation of 1, St. Lawcrence Avenue, Beloit Wisconsin, U.S.A.	Slice lip for a head- box of paper machines.

RENEWAL FEES PAID

123163 124659 124825 128365 128930 129706 133001 133176
134195 134853 134880 134979 135227 135725 136457 136973
137013 137093 137822 138449 138547 139634 139830 140265
140290 140390 140584 140627 141005 141096 141125 141363
141411 141919 142035 142300 142600 142607 142621 142754
142838 142860 142875 143038 143124 143181 143616 143659
143722 143807 143829 143989 144373 144686 144807 144835
144876 145011 145188 145336 145795 145810 145866 145936
145959 146119 146150 146168 146204 146210 146232 146387
146499 146501 146517 146622 146632 146732 146756 146802
146856 146911 146914 146925 146930 146972 146973 147000
147005 147035 147079 147118 147165 147180 147197 147228
147290 147357 147386 147404 147525 147572 147578 147594
147616 147650 147662 147667 147681 147788 147928 147930
147936 147955 148056 148164 148165 148172 148309 148371
148431 148445 148460 148465 148510 148526 148670 148768
148774 148779 148817 148828 148829 148880 148901 148902
148609 148962 148969 149016 149191 149206 149256 149363
149373 149383 149433 149481 149575 149625 149639 149660
149785 149798 149827 149931 149932 149970 150036 150074
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150212 150335 150396 150397 150476 150570 150616 150670
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151330 151416 151433 151469 151479 151495 151497 151499
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151762 151769 151824 151909 151932 151965 151966 151969
151970 151973 151990 152001 152010 152036 152124 152116
152128 152131 152141 152142 152144 152145 152146 152147
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152175 152184 152199 152203 152204 152208 152209 152210
152211 152221 152300 152314 152333 152364 152404 152559
152564 152594 152595 152596 152598 152601 152602 152607
152629 152660 152670 152674 152675 152682

REGISTRATION OF DESIGNS

The following designs have been registered They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911

The date shown in the each entry is the date of registration of the design included in the entry

Class 1. No. 154718. Meera Metal Industries (a registered Partnership firm) at 32/2, Panjarpol Lane, C.P. Tank Road, Bombay 400 004, Maharashtra State, India, "Pan". 20th August, 1984.

Class 1. No. 154973. Paman Products Private Limited, having its registered office at 205-A, Hiran Industries Estate, Mogul Lane, Mahim, Bombay 400 016, Maharashtra, India, an Indian Company, "Tape recorder cum radio", 20th October, 1984.

Class 1 No. 154975. Paman Products Private Limited, having its registered office at 205-A, Hiran Industrial Estate, Mogul Lane, Mahim, Bombay 400 016. Maharashtra, India, an Indian Company. "Radio". 20th October, 1984.

Class 1. No. 154976. Paman Products Private Limited, having its registered office at 205-A, Hiran Industrial Estate, Mogul Lane, Mahim, Bombay 400 016, Maharashtra, India, an Indian Company. "Radio". 20th October, 1984.

Class 3. No. 154858. V.I.P. Industries Ltd., of V.I.P. House, 88c Old Prabhadevi Road, Bombay-400025, Maharashtra, India, an Indian Company. "Brief Case". 21st September, 1984.

Class 3. No. 154914. V.I.P. Industries Ltd., of V.I.P. House, 88C Old Prabhadevi Road, Bombay 400 025, Maharashtra, India, an Indian Company, "Suit Case". 29th September, 1984.

Class 3. No. 154717. Universal Luggage Manufacturing Company Private Limited, (an Indian Company) of Bldg. 'B' Shah Indusrtial Estate, Saki, Vihar Road, Bombay 400 072, Maharashtra State, India "Brief Case". 18th August, 1984.

Class 4 No. 154816. Modern Food Industries (I) Ltd., a Govt. of India Undertaking, of 25-B, Local Shopping. Centre, Paschimi Marg, Vasant Vihar, New Delhi-110057, India "Bottle" 12th September, 1984.

R. A. ACHARYA,
Controller General of Patents, Designs and Trade Marks.

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